



ARTISTS'
ARCHITECTS'



ENGRAVED BY GEO. E. JOHNSON - 9 M. R. ST.




& ENGINEERS'
SUPPLIES.

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ESTABLISHED BY SAMUEL WADSWORTH IN 1845.



ILLUSTRATED CATALOGUE

OF

WADSWORTH, HOWLAND & Co.,

IMPORTERS AND DEALERS IN

ARTISTS' SUPPLIES

AND

ARCHITECTS' AND ENGINEERS' STATIONERY,

84 WASHINGTON AND 46 FRIEND STREETS,

BOSTON.

MALDEN:

A. G. BROWN, STEAM BOOK & JOB PRINTER.

1885.

TO OUR CUSTOMERS.

IN calling attention to the largest stock of Artists' Materials, Mathematical Instruments, and Architects' and Engineers' Supplies to be found in New England, we would remind our customers that we do not consider any catalogue, however large, as complete for any length of time, on account of the constant necessity of making additions to our stock from the latest novelties to be found at home and abroad. Through our English, French and German agents, we are able not only to order such goods as we need for our regular trade, but can, as heretofore, execute special commissions for our customers.

Having recently taken the agency of one of the largest foreign manufacturers of first class Mathematical Instruments, we can offer some very desirable goods in that line at low prices, and would ask architects and draughtsmen to call and inspect them.

The new patent Stretchers, introduced by us during the past year, consisting of pieces interchangeable with each other and thus capable, in the different lengths, of a variety of combinations, have proved a marked success. To parties desirous of stretching their own canvas they are a great convenience and save much trouble in fitting joints where any regular sizes are required which the ordinary stretcher pieces could not be combined to produce.

We have also taken the agency of the celebrated Lead Penci's, manufactured by L. & C. Hardtmuth, of Vienna. We have them in different grades the best of which have been pronounced by architects and draughtsmen who have tried them as superior to Faber's in the smooth working quality of the lead, and its greater strength as noticed particularly in the very soft numbers like 6 B's. For further particulars we would refer to our Catalogue under Drawing Pencils.

We would remind customers that our telephone places us in direct communication with all parts of this and other cities and towns that are connected with the Telephone Exchange of Boston, and that all orders sent us in this way will be promptly attended to.

Hoping for a continuance of the very liberal patronage with which we have hitherto been favored, we remain

Very truly yours,

WADSWORTH, HOWLAND & CO.

GENERAL DIRECTIONS.

ORDERS for Goods from parties not having an account with us, should be accompanied with a remittance, either by Registered Letter, Postal Money Order, Postal Note, or Cashier's Check on some *Boston* Bank, as customers may find most convenient. On receipt of the necessary postage we will send by mail, *at the risk of the party ordering*, any small packages (not containing liquids or other merchandise prohibited by the regulations of the Post Office Department), and larger articles by express, taking pains at all times to see that everything is properly packed.

For the guidance of our customers we would remind them that merchandise, of a character *not injurious to the mails*, and not exceeding four pounds in weight, can be forwarded to any part of the United States on pre-payment of postage, at the rate of one cent per ounce, and each fractional part of an ounce. To Canada and the British Provinces the rate is ten cents for eight ounces, packages not to exceed this weight. Parties wishing to return articles received from us by mail, for exchange, will please recollect that any writing upon them, except for the necessary address, subjects the package to *letter* postage.

WADSWORTH, HOWLAND & CO.'S

❖CATALOGUE❖

OF

ARTISTS' SUPPLIES.

CANVAS, ACADEMY BOARDS, &C.

Winsor & Newton's

Prepared Canvas on Frames.

	Smooth.	Roman.	Twilled.		Smooth.	Roman.	Twilled.
6 x 8 inches,	.35	.38	.45	14 x 22 inches,	.75	.85	\$1.00
6 x 9 "	.35	.38	.45	14 x 24 "	.85	.95	1.10
6 x 10 "	.35	.38	.45	15 x 18 "	.75	.85	.95
6 x 12 "	.35	.38	.45	15 x 27 "	1.05	1.15	1.20
7 x 9 "	.35	.38	.45	16 x 20 "	.85	.90	1.10
7 x 10 "	.35	.38	.45	16 x 22 "	.85	.90	1.10
7 x 11 "	.35	.38	.45	16 x 24 "	.95	1.05	1.15
7 x 12 "	.35	.38	.45	17 x 21 "	.95	1.05	1.15
8 x 10 "	.35	.38	.45	17 x 25 "	1.05	1.10	1.25
8 x 12 "	.35	.38	.45	18 x 24 "	1.05	1.15	1.25
8 x 16 "	.50	.55	.60	18 x 26 "	1.05	1.20	1.35
8 x 18 "	.55	.60	.65	18 x 30 "	1.10	1.20	1.40
8 x 20 "	.65	.70	.75	20 x 24 "	1.15	1.35	1.45
9 x 11 "	.35	.38	.45	20 x 27 "	1.20	1.40	1.45
9 x 12 "	.35	.38	.45	20 x 30 "	1.30	1.50	1.60
9 x 13 "	.40	.45	.50	22 x 27 "	1.25	1.50	1.65
9 x 14 "	.42	.50	.55	22 x 30 "	1.35	1.55	1.70
9 x 15 "	.50	.55	.60	24 x 30 "	1.40	1.60	1.85
9 x 17 "	.55	.60	.75	24 x 34 "	1.55	1.80	2.00
9 x 20 "	.65	.70	.80	24 x 36 "	1.80	2.10	2.25
10 x 12 "	.40	.50	.55	25 x 30 "	1.40	1.60	1.90
10 x 14 "	.45	.55	.60	26 x 36 "	1.90	2.15	2.30
10 x 15 "	.50	.60	.60	26 x 42 "	2.20	2.55	2.75
10 x 16 "	.50	.60	.60	27 x 34 "	1.65	2.00	2.20
10 x 18 "	.60	.70	.75	28 x 48 "	2.75	3.10	3.60
10 x 20 "	.70	.75	.85	29 x 36 "	2.00	2.35	2.50
10 x 24 "	.80	.85	.95	30 x 40 "	2.70	2.90	3.15
11 x 15 "	.55	.65	.70	30 x 42 "	2.75	3.10	3.25
12 x 14 "	.55	.65	.70	30 x 44 "	2.85	3.25	3.50
12 x 15 "	.60	.70	.75	30 x 50 "	3.10	3.50	4.00
12 x 16 "	.60	.70	.75	34 x 42 "	2.80	3.25	3.50
12 x 17 "	.65	.70	.80	34 x 44 "	2.95	3.35	3.65
12 x 18 "	.65	.80	.90	34 x 60 "	4.00	4.50	5.00
12 x 20 "	.70	.80	.90	36 x 42 "	2.80	3.20	3.65
12 x 24 "	.85	.90	1.05	36 x 50 "	3.50	3.80	4.25
14 x 16 "	.70	.80	.90	36 x 60 "	4.20	4.75	5.25
14 x 17 "	.70	.85	.95	40 x 50 "	3.80	4.00	4.75
14 x 18 "	.75	.85	.95	40 x 54 "	3.90	4.25	5.00
14 x 20 "	.75	.85	1.00				

Special and irregular sizes made and stretched to order.

French Canvas, of the above sizes, stretched to order at short notice. Fine, 50 per cent., Best Ordinary, 10 per cent. higher than for W. & N.'s Smooth.



F. W. Devoe & Co.'s

Prepared Canvas on Frames.

Smooth. Roman.		Smooth. Roman.		Smooth. Roman.	
6 x 8 inches,	\$0.32 \$0.35	12 x 14 inches,	\$0.50 \$0.58	18 x 48 inches,	\$2.25 \$2.40
6 x 9 "	.32 .35	12 x 15 "	.54 .63	18 x 50 "	2.35 2.55
6 x 10 "	.32 .35	12 x 16 "	.54 .63	18 x 60 "	2.50 2.80
6 x 12 "	.32 .35	12 x 17 "	.58 .63	20 x 24 "	1.05 1.20
6 x 18 "	.45 .50	12 x 18 "	.58 .72	20 x 27 "	1.08 1.25
7 x 9 "	.32 .35	12 x 20 "	.63 .70	20 x 30 "	1.16 1.35
7 x 10 "	.32 .35	12 x 24 "	.76 .80	22 x 27 "	1.12 1.35
7 x 11 "	.32 .35	12 x 30 "	.90 1.00	22 x 30 "	1.20 1.40
7 x 12 "	.32 .35	14 x 16 "	.63 .72	22 x 36 "	1.55 1.70
8 x 10 "	.32 .35	14 x 17 "	.63 .76	24 x 30 "	1.25 1.40
8 x 12 "	.32 .35	14 x 18 "	.68 .76	24 x 34 "	1.40 1.60
8 x 16 "	.45 .50	14 x 20 "	.68 .76	24 x 36 "	1.60 1.90
8 x 18 "	.50 .54	14 x 22 "	.68 .76	25 x 30 "	1.25 1.44
8 x 20 "	.58 .63	14 x 24 "	.80 .85	26 x 36 "	1.70 1.95
9 x 11 "	.32 .35	14 x 40 "	1.55 1.70	26 x 42 "	2.00 2.30
9 x 12 "	.32 .35	14 x 60 "	2.30 2.50	27 x 34 "	1.50 1.80
9 x 13 "	.36 .40	15 x 18 "	.68 .76	28 x 48 "	2.45 2.85
9 x 14 "	.38 .45	15 x 27 "	.95 1.04	29 x 36 "	1.80 2.10
9 x 15 "	.45 .50	16 x 20 "	.76 .80	30 x 40 "	2.45 2.60
9 x 17 "	.50 .54	16 x 22 "	.76 .80	30 x 42 "	2.45 2.85
9 x 20 "	.58 .63	16 x 24 "	.85 .95	30 x 44 "	2.50 2.90
10 x 12 "	.38 .45	16 x 42 "	2.00 2.15	30 x 50 "	2.90 3.15
10 x 14 "	.40 .50	16 x 50 "	2.20 2.35	34 x 42 "	2.50 2.90
10 x 15 "	.45 .54	16 x 60 "	2.35 2.60	34 x 44 "	2.65 3.00
10 x 16 "	.45 .54	17 x 21 "	.85 .95	34 x 60 "	3.60 4.00
10 x 18 "	.54 .63	17 x 25 "	.95 1.00	36 x 42 "	2.50 2.85
10 x 20 "	.63 .68	18 x 22 "	.95 1.00	36 x 50 "	3.15 3.40
10 x 22 "	.65 .73	18 x 24 "	.95 1.05	36 x 60 "	3.80 4.25
10 x 24 "	.72 .78	18 x 26 "	.95 1.05	40 x 50 "	3.40 3.60
11 x 15 "	.50 .58	18 x 30 "	1.00 1.10	40 x 54 "	3.60 3.85

Special and irregular sizes, French style, Roman, Twilled, and Single Prime stretched to order.

Canvas on thin stretchers furnished at short notice.

We are also prepared to furnish American Canvas in any desired size, at twenty-five per cent. less than above rates.

Winsor & Newton's Prepared Canvas for Oil Painting,

In Rolls of Six Yards.

							Smooth.	Roman.	Twilled.
27 inches wide,	.	.	.	.	.	per yard,	\$1.16	\$1.25	\$1.40
30 "	.	.	.	.	.	"	1.25	1.40	1.60
36 "	.	.	.	.	.	"	1.40	1.55	1.80
38 "	.	.	.	.	.	"	1.55	1.68	2.00
42 "	.	.	.	.	.	"	1.68	2.00	2.25
45 "	.	.	.	.	.	"	2.10	2.50	2.55
54 "	.	.	.	.	.	"	2.75	3.20	3.30
62 "	.	.	.	.	.	"	3.25	3.50	3.50
74 "	.	.	.	.	.	per roll,	23.50	31.50	32.00
86 "	.	.	.	.	.	"	27.00		33.00

Single Prime Canvas same price as smooth. Extra Widths imported to order.

F. W. Devoe & Co.'s Prepared Canvas for Oil Painting,

In Rolls of Six Yards.

							Smooth.	Roman.	Twilled.
27 inches wide,	.	.	.	.	.	per yard,	\$1.00	\$1.00	\$1.20
30 "	.	.	.	.	.	"	1.12	1.20	1.40
36 "	.	.	.	.	.	"	1.25	1.40	1.65
42 "	.	.	.	.	.	"	1.40	1.60	1.90
45 "	.	.	.	.	.	"	1.90	2.00	2.15

Single Prime Canvas same price as smooth. Extra widths furnished to order.

F. W. Devoe & Co.'s Prepared Sketching Canvas.

(*French Style.*)

In Rolls of Six Yards.

32 inches wide, French,	.	.	.	.	.	per yard,	\$1.25; French,	per roll,	\$6.75
34 "	"	"	.	.	.	"	1.50; "	"	7.25

French Canvas.

40 inches wide, fine,	.	.	.	.	.	.	.	per yard,	\$3.00
40 "	ordinary,	.	.	.	.	.	.	"	1.50
40 "	fine twilled,	.	.	.	.	.	.	"	3.00

Stretchers, without Canvas,

Of Clear Stock and Superior Quality.

6 x 8 to 18 x 24	.	each,	.20	30 x 44 to 36 x 44	.	each,	.60
18 x 26 to 22 x 30	.	"	.25	40 x 50	.	"	.75
25 x 30 to 24 x 36	.	"	.30	40 x 54	.	"	.80
27 x 34 to 29 x 36	.	"	.40	34 x 60	.	"	.80
26 x 42 to 30 x 40	.	"	.45				

Odd sizes made to order at short notice.

Russell's Canvas Boards.

We are Sole Agents for Massachusetts and Rhode Island.

A substitute for Mill Boards, consisting of a canvas surface over a stiff paste board backing, thereby forming a very desirable material for sketches and finished paintings.

4 x 6 inches	.	.	each, .10	10 x 20 inches	.	.	each, .40
4 x 8 "	.	.	" .12	12 x 14 "	.	.	" .35
6 x 8 "	.	.	" .15	12 x 16 "	.	.	" .40
6 x 10 "	.	.	" .20	12 x 18 "	.	.	" .45
6 x 12 "	.	.	" .20	12 x 20 "	.	.	" .50
7 x 9 "	.	.	" .20	12 x 22 "	.	.	" .50
7 x 11 "	.	.	" .25	12 x 24 "	.	.	" .50
8 x 10 "	.	.	" .25	14 x 16 "	.	.	" .45
8 x 12 "	.	.	" .30	14 x 18 "	.	.	" .50
8 x 14 "	.	.	" .30	14 x 20 "	.	.	" .50
8 x 16 "	.	.	" .35	14 x 22 "	.	.	" .60
9 x 11 "	.	.	" .30	14 x 24 "	.	.	" .65
9 x 12 "	.	.	" .35	14 x 26 "	.	.	" .70
9 x 13 "	.	.	" .35	14 x 28 "	.	.	" .75
9 x 15 "	.	.	" .35	16 x 20 "	.	.	" .65
9 x 18 "	.	.	" .40	16 x 22 "	.	.	" .70
10 x 12 "	.	.	" .35	16 x 24 "	.	.	" .75
10 x 14 "	.	.	" .35	16 x 26 "	.	.	" .80
10 x 16 "	.	.	" .35	18 x 22 "	.	.	" .80
10 x 18 "	.	.	" .40	18 x 24 "	.	.	" 1.00

Winsor & Newton's

Oil Sketching Paper.

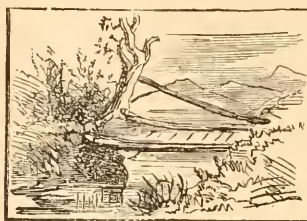
Prepared Oil Sketching Paper, 20 x 30 inches, thin	.	.	.	per sheet,	.25
" " " " " thick	.	.	.	"	.45

F. W. Devoe & Co.'s

Oil Sketching Paper.

Thick.

Smooth, 22 x 30 inches,	.	.	.	.	.	per sheet,	.25
With grain, 22 x 30 "	.	.	.	.	.	"	.25



F. W. Devoe & Co.'s

Academy Boards,

With Smooth or Rough Surfaces.

6 x 9 inches	.	.	each,	.07	12 x 18 inches	.	.	each,	.17
9 x 12 "	.	.	"	.10	18 x 24 "	.	.	"	.33

F. W. Devoe & Co.'s

Millboards.

6 x 8 inches	.	.	each,	.23	10 x 18 inches	.	.	each,	.55
6 x 12 "	.	.	"	.25	12 x 14 "	.	.	"	.50
8 x 10 "	.	.	"	.25	12 x 16 "	.	.	"	.65
8 x 14 "	.	.	"	.35	12 x 18 "	.	.	"	.85
9 x 12 "	.	.	"	.35	12 x 20 "	.	.	"	.95
9 x 16 "	.	.	"	.40	14 x 20 "	.	.	"	1.00
10 x 12 "	.	.	"	.38	14 x 24 "	.	.	"	1.25
10 x 14 "	.	.	"	.45	16 x 20 "	.	.	"	1.15

Black Wood Panels,

With Polished or Dull Surfaces.

5 x 12 inches	.	.	each,	.55	8 x 16 inches	.	.	each,	1.00
6 x 12 "	.	.	"	.65	6 x 16 "	.	.	"	.80
7 x 15 "	.	.	"	.80	9 x 18 "	.	.	"	1.10

Cherry Wood Panels for Oil Painting.

4 x 6	.	.	.15	7 x 10	.	.	.25	9 x 13	.	.	.35
4 x 8	.	.	.15	7 x 14	.	.	.30	10 x 14	.	.	.45
5 x 10	.	.	.20	8 x 11	.	.	.30	12 x 16	.	.	.60
6 x 12	.	.	.20	9 x 12	.	.	.35	12 x 18	.	.	.75

Silhouette Boards,

Of White Holly. Beveled Edges.

2½ x 4½ inches	.	.	each,	.15	5 x 10 inches	.	.	each,	.30
4 x 6½ "	.	.	"	.20	6 x 12 "	.	.	"	.35
4 x 8 "	.	.	"	.25	7 x 14 "	.	.	"	.40

Odd sizes furnished to order.

Also, a variety of articles in White Holly, for decoration. Shields, Horse Shoes, Fans, etc.

Fancy Wood Panels, for Oil Painting.

With Gold Frosted Bevel Edges.

Surface to paint		White Wood.	Ebonized.	Gold Face.
4 x 6, 1 inch bevel,	.	\$.80	\$1.15	\$1.00
" " 4 x 8, 1 "	.	1.00	1.20	1.20
" " 5 x 10, 1 "	.	1.10	1.30	1.50
" " 6 x 8, 1 1/4 "	.	1.25	1.50	1.65
" " 6 x 10, 1 "	.	1.25	1.50	1.80
" " 6 x 12, 1 1/4 "	.	1.50	1.80	2.00
" " 6 x 14, 1 1/4 "	.	1.65	2.00	2.25
" " 7 x 9, 1 1/4 "	.	1.35	1.75	1.80
" " 8 x 10, 1 1/4 "	.	1.50	1.80	2.00
" " 8 x 12, 1 1/4 "	.	1.65	2.00	2.25
" " 10 x 14, 1 1/2 "	.	2.25	2.65	
" " 10 x 20, 2 "	.	3.00	3.50	
" " 12 x 16, 2 "	.	2.85	3.40	
" " 12 x 24, 2 "	.	3.50	4.00	
" " 14 x 20, 2 "	.	3.50	4.00	

Card Board Panels.

With Beveled Edges Gilt.

In Grey, Black, Cream, Azure, Pink and Pale Green, for Oil or Water Color Painting.

23 $\frac{3}{4}$ x 4 $\frac{1}{4}$ inches,	.	each,	.06	7 x 14 inches,	.	each,	.30
4 x 6 $\frac{1}{2}$ "	.	"	.10	Black Card Board, 22 x 28, "	.	"	.12
4 x 8 "	.	"	.12	Brown "	.	"	.12
5 x 10 "	.	"	.16	Grey "	.	"	.12
6 x 12 "	.	"	.20				

Thin Card Circles, Palettes, Crescents, etc.,

In Gilt and Assorted Colors.

Black Enamelled Tin Panels.

As we have numerous calls for these Plates, for Flower Painting, we give below prices of the sizes most commonly used. Can furnish larger plates if desired.

[illegible]

Wooden Plates and Placques.

Three-Ply.

[illegible]



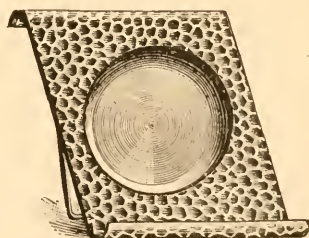
Embossed Metal Plaque Rims.

Of our own importation, direct from Berlin, and made to order to fit sizes of Placques manufactured in this country.

No.		Diameter			With opening for		Each.
1	.	11 inch,	.	.	5 inch Plaque,	.	\$2.35
2	.	17 "	.	.	6 " "	.	4.00
3	.	17 "	.	.	7 " "	.	4.00
4	.	17 "	.	.	8 " "	.	4.00
5	.	23 "	.	.	10 " "	.	8.00
6	.	23 "	.	.	11 " "	.	8.00
7	.	23 "	.	.	12 " "	.	8.00



No. 1.



No. 3.

Metal Placques.

Burnished Brass. No. 1.

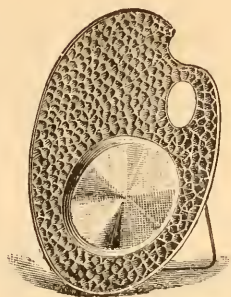
3 inch,	.	.	.	.15	8 inch,	.	.	.40
3½ "	.	.	.	.20	10 "	.	.	.55
4 "	.	.	.	.25	12 "	.	.	.70
6 "	.	.	.	.30	14 "	.	.	1.15
7 "	.	.	.	.35	16 "	.	.	1.35

No. 3. Latest Plaque. Hammered Scroll, with Wire Support.

6 inch,	.	.	.	\$1.10	10 inch,	.	.	\$1.45
8 "	.	.	.	1.25				

Complex Brass Placques.

6 inch,	.	.	.	.	.	.40	10 inch,	.	.	.	.	.	.70
8 "	.	.	.	.	.	.50	12 "	.	.	.	.	.	.90



Brass Palette Placques.

6 inch,	.	.	.	.	.	\$1.25	10 inch,	.	.	.	.	.	\$1.60
8 "	.	.	.	.	.	1.40							

Brass Rims For Metal Placques.

For 6 inch Plaque,	.	.	.	.	.50	For 12 inch Plaque,	.	.	\$1.40
" 7 " "	.	.	.	.	.65	" 14 " "	.	.	1.90
" 8 " "	.	.	.	.	.80	" 16 " "	.	.	2.40
" 10 " "	.	.	.	.	.90				

Thick Porcelain Placques.

5 inch,	.	.	.	.	.	.25	10 inch,	.	.	.	.	.	.70
6 "	.	.	.	.	.	.33	11 "	.	.	.	.	.	.78
7 "	.	.	.	.	.	.42	12 "	.	.	.	.	.	.82
8 "	.	.	.	.	.	.50	14 "	.	.	.	.	.	1.00
9 "	.	.	.	.	.	.60							

Paper Placques.

6 inch, round,	.	.	.	.	.20	14 inch, round,	.	.	.	.60
7 " "	.	.	.	.	.25	16 " "	.	.	.	.70
8½ " "	.	.	.	.	.30	11 " oval	.	.	.	.45
10 " "	.	.	.	.	.40	13 " "	.	.	.	.55
11 " "	.	.	.	.	.45	15 " "	.	.	.	.65
12 " "	.	.	.	.	.50					

W. H. & Co.'s Academy Boards.

6 x 9 inches, . . . each,	.05	12 x 18 inches, . . . each	.13
9 x 12 " . . . " . . .	.07	18 x 24 " . . . " . . .	.22

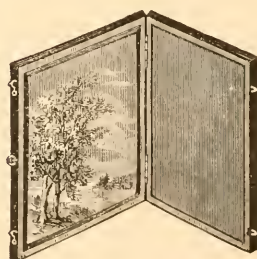
Ebonized Paper Placques.

6 inch, round, . . . .	.30	14 inch, round,	\$.85
7 " " . . . .	.35	16 " "	1.15
8½ " " . . . .	.40	11 " oval, . . . .	.55
10 " " . . . .	.50	13 " " . . . .	.80
12 " " . . . .	.70	15 " "	1.00

Plate Glass Panels.

With Beveled Edges and Ground Surface.

4 x 8 inches, . . . each,	.45	8 x 8 inches, . . . each,	\$1.10
6 x 6 " . . . " . . .	.55	6 x 12 " . . . " . . .	1.00
5 x 10 " . . . " . . .	.63	10 x 12 " . . . " . . .	1.50



Claude Lorraine Glasses,

Or Black Convex Mirrors for reflecting, in true perspective, Landscapes, Clouds, Sunsets, etc.

No. 1.	4 x 5 inches, in Morocco case,	. . . . .	\$4.50
" 2.	5 x 6 " " " " " " " " " "	. . . . .	5.75
" 3.	5 x 7 " " " " " " " " " "	. . . . .	6.75
" 4.	6 x 7 " " " " " " " " " "	. . . . .	8.00
" 5.	6 x 8 " " " " " " " " " "	. . . . .	9.00
" 6.	7 x 8½ " " " " " " " " " "	. . . . .	10.00
" 7.	7 x 9 " " " " " " " " " "	. . . . .	11.00

Blocks for Sketching in Oil.

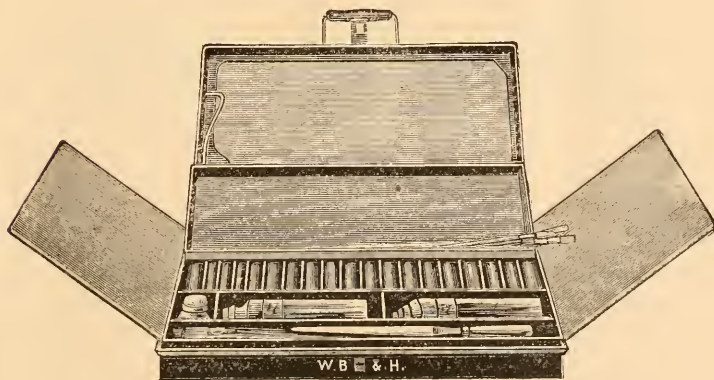


Half Bound.

Made on the principle of Solid Sketch Blocks. Composed of a number of sheets of prepared Oil Sketching Paper, forming a solid block of paper. Each block contains twenty-four surfaces of paper.

			Blocks only.	Half-bound.
5 x 7 inches	.	.	each, .75	\$1.50
7 x 10 "	.	.	" 1.25	2.50
10 x 14 "	.	.	" 1.75	3.50

Japanned Tin Oil Sketching Boxes.



The above, fitted complete to order, from \$5.00 to \$20.00.
For the same boxes empty, see METAL WARE.

List of Winsor & Newton's Oil Colors,

In Collapsible Tubes.

EIGHT CENTS PER TUBE.

Antwerp Blue	Cool Roman Ochre	Orpiment
Asphaltum	Cork Black	Oxford Ochre
Bitumen	Cremnitz White	Permanent Blue
Blue Black	Crimson Lake	Permanent White
Black Lead	Emerald Green	Persian Red
Blanc d'Argent	Flake White	Prussian Blue
Bone Brown	Gamboge	Prussian Brown
Brown Ochre	Indian Lake	Purple Lake
Brown Pink	Indian Red	Payne's Grey
Brown Red	Indigo	Pyne's Megilp
Burnt Roman Ochre	Italian Pink	Raw Sienna
Burnt Sienna	Ivory Black	Raw Umber
Burnt Umber	Jaune Brilliant	Roman Ochre
Caledonian Brown	King's Yellow	Sap Green
Cappah Brown	Lamp Black	Scarlet Lake
Cassei Earth	Light Red	Silver White
Chinese Blue	Magenta	Sugar of Lead
Chrome Lemon	Mauve	Terra Rosa
Chrome Yellow	Medium	Terra Verte
Chrome Deep	Megilp	Transparent Cold Ochre
Chrome Orange	Mummy	Vandyke Brown
Chrome Red	New Blue	Venetian Red
Chrome Green	Neutral Tint	Verdigris
Chrome Green, 1, light	Naples Yellow	Verona Brown
Chrome Green, 2, medium	Naples Yellow, Fr.	Vert Peroquet
Chrome Green, 3, dark	Nottingham White	Yellow Lake
Cologne Earth	Olive Lake	Yellow Ochre
Copal Megilp	Olive Tint	Zinc White

EIGHTEEN CENTS PER TUBE.

Brown Madder	Cerulean Blue	Sepia
Burnt Lake	Chinese Vermilion	Vermilion
	French Vermilion	

TWENTY-EIGHT CENTS PER TUBE.

Carmine, No. 2	Malachite Green	Oxide of Chromium, trans-
Citron Yellow	Mars Brown	parent
Cobalt Blue	Mars Red	Pink Madder
Extract of Vermilion	Mars Violet	Rembrandt's Madder
French Ultramarine	Mars Yellow	Rose Madder
French Veronese Green	Mineral Grey	Ruben's Madder
Lemon Yellow, pale	Orange Vermilion	Scarlet Vermilion
Lemon Yellow, deep	Oxide of Chromium	Strontian Yellow
Madder Lake		Viridian

FORTY CENTS PER TUBE.

Brilliant Ultramarine	Cadmium Red	Indian Yellow
Burnt Carmine	Carmine	Madder Carmine
Cadmium Yellow	Extra Malachite Green	Mars Orange
Cadmium Yellow, light	Field's Orange Vermilion	Purple Madder
Cadmium Orange		Violet Carmine

EIGHTY CENTS PER TUBE.

Aureolin	Orient Yellow	Ultramarine Ash
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No. 1 represents size of Triple tube, or three times that of Single.
 No. 2 represents size of Double tube, or $\frac{1}{4}$ lb. tube for Whites.
 No. 3 represents size of Quadruple tube, or $\frac{1}{2}$ lb. tube for Whites.
 (Winsor and Newton's tubes correspond in size with above.)

F. W. Devoe & Co.'s Finely Prepared Artists' Oil Colors, in Patent Collapsible Tubes.

7 CENTS PER TUBE.

American Vermillion	Flake White	Permanent Blue
Antwerp Blue	French Green	Permanent White
Asphaltum	Flesh Ochre	Persian Red
Bistre	Gamboge	Prussian Blue
Bitumen	Gold Ochre	Prussian Brown
Blue Black	Indian Lake	Prussian Green
Bone Brown	Indian Red	Purple Lake
Brilliant Yellow	Indigo	Raw Sienna
Brown Ochre	Italian Pink	Raw Umber
Brown Pink	Ivory Black	Roman Ochre
Burnt Umber	King's Yellow	Scarlet Lake
Burnt Roman Ochre	Lamp-Black	Silver White
Burnt Sienna	Light Red	Sugar of Lead
Burnt Terra Verde	Light Raw Sienna	Transparent Gold Ochre
Caledonian Brown	Megilp	Terra Rosa
Cappah Brown	Mummy	Terra Verde
Cassell Earth	Mauve	Vandyke Brown
Copal Megilp	Naples Yellow, 1, 2, 3	Venetian Red
Chrome Green, 1, 2, 3	Naples Yellow, French	Verdigris
Chrome Yellow, 1, 2, 3	Naples Yellow, Green	Verona Brown
Chrome Orange	Neutral Tint	Veronese Green
Chrome Red	New Blue	Yellow Lake
Cologne Earth	Olive Lake	Yellow Ochre
Cork Black	Olive Tint	Zinc White
China White	Orpiment	Zinober Green, Light
Chinese Blue	Oxford Ochre	Zinober Green, Medium
Cremnitz White	Paris Blue	Zinober Green, Deep
Crimson Lake	Paris Green	
Emerald Green	Payne's Gray	

12 CENTS PER TUBE.

Blue Verditer	Chinese Green	Geranium Lake
Burnt Lake	Chinese Vermilion	Green Lake
Carnation Lake	English Vermilion	Imperial Orange
Citron Yellow	French Vermilion	Perfect Yellow
Cerulean Blue	Gaude Lake	Sepia

20 CENTS PER TUBE.

Brown Madder	Madder Lake	Pink Madder
Cobalt Green	Madder Lake, deep	Rose Madder
Emeraude Green	Malachite Green	Transparent Oxide of Chromium.
Extract of Gamboge	Oxide of Chromium	

22 CENTS PER TUBE.

Cadmium, Lemon	Cobalt Blue	Orange Vermilion
Cadmium, Light	Extract of Vermilion	Paul Veronese Green
Cadmium, Yellow	Lemon Yellow	Roberts' Lake
Cadmium, Deep	Mars Brown	Rubens' Madder
Cadmium, Orange	Mars Red	Scarlet Vermilion
Cadmium, Red	Mars Violet	Ultramarine
	Mars Yellow	

32 CENTS PER TUBE.

Antimony Yellow	Capucine Madder	Violet Carmine
Purple Madder	French Carmine	

40 CENTS PER TUBE.

Burnt Carmine
Indian Yellow

Madder Carmine
Mars Orange
Scarlet Madder

Ultramarine Ash
Yellow Madder

45 CENTS PER TUBE.

Roberts' Lake, No. 1
" " " 2
" " " 3

Roberts' Lake, No. 4
" " " 5
" " " 6

Roberts' Lake, No. 7
" " " 8

Schoenfeld's Dusseldorf Tube Oil Colors.

	Per Tube.
Brun Rouge (<i>Red Brown</i>)	.10
Bleu Celeste (<i>Celestial Blue</i>)	.30
Cadmium, Nos. 1, 2, 3, 4, 5, (<i>Cadmium</i>)	.40
Cremserweiss (<i>Cremnitz White, Dbl.</i>)	.20
Chromegelb, Hell (<i>Light Chrome Yellow</i>)	.10
Chromegelb, Dunkel (<i>Dark Chrome Yellow</i>)	.10
Colner Erde (<i>Cologne Earth</i>)	.10
Caput Mortuum (<i>Caput Mortuum</i>)	.10
Chinesischer Zinnober (<i>Chinese Vermillion</i>)	.25
Cassler Brun (<i>Cassel Brown</i>)	.10
Deckgrun (<i>Dark Green</i>)	.10
Dunkelgruner Lack (<i>Dark Green Lake</i>)	.25
Dunkelocker (<i>Dark Ochre</i>)	.10
Dunkel Permanent Grun (<i>Dark Permanent Green</i>)	.10
Dunkelgruner Zinnober (<i>Dark Green Vermillion</i>)	.10
Elfenbeischwarz (<i>Ivory Black</i>)	.10
Fleischocker (<i>Flesh Ochre</i>)	.10
Goldocker (<i>Gold Ochre</i>)	.10
Gebranter Lichterocker (<i>Burnt Light Ochre</i>)	.10
Gebranter Goldocker (<i>Burnt Gold Ochre</i>)	.10
Gebranter Romanocker (<i>Burnt Roman Ochre</i>)	.10
Gebranter Dunkelocker (<i>Burnt Dark Ochre</i>)	.10
Gebranter Terra de Sien (<i>Burnt Terra de Sienna</i>)	.10
Gebranter Umbra (<i>Burnt Umber</i>)	.10
Gelbgruner Zinnober (<i>Yellow Green Vermillion</i>)	.10
Grune Erde (<i>Green Earth</i>)	.10
Hell English Roth (<i>Light English Red</i>)	.10
Hell Permanent Grun (<i>Light Permanent Green</i>)	.10
Hellgruner Lack (<i>Light Green Lake</i>)	.25

	Per Tube.
Hellgruner Zinnober (<i>Light Green Vermillion</i>)	.10
Indischgelb (<i>Indian Yellow</i>)	.40
Indisch Roth Dunkel (<i>Dark Indian Red</i>)	.10
Jaune Brilliant Hell (<i>Light Brilliant Yellow</i>)	.10
Jaune Brilliant Dunkel (<i>Dark Brilliant Yellow</i>)	.10
Japanisch Gelb (<i>Japan Yellow</i>)	.25
Kobaltblau No. 0, Dunkel (<i>Dark Cobalt Blue</i>)	.30
Kobaltblau No. 1 (<i>No. 1 Cobalt Blue</i>)	.30
Kobaltblau, No. 2, Hell (<i>No. 2 Light Cobalt Blue</i>)	.25
Krapplack, No. 1 (<i>Madder Lake</i>)	.30
" " 2 " "	.30
" " 3 " "	.30
" " 4 " "	.30
" " 5 " "	.30
" " 6 " "	.40
" " 7 " "	.50
" " 8 " "	.50
Lichterocker (<i>Light Ochre</i>)	.10
Lichterocker, No. 2 (<i>Light Ochre, No. 2</i>)	.10
Madder Braun (<i>Brown Madder</i>)	.30
Mineral Blau (<i>Mineral Blue</i>)	.10
Mineralgrun (<i>Mineral Green</i>)	.10
Mineralgelb (<i>Mineral Yellow</i>)	.10
Mittel Permanent Grun (<i>Medium Permanent Green</i>)	.10
Mumie (<i>Mummy</i>)	.10
Neapelgelb Hell (<i>Light Naples Yellow</i>)	.10
Neapelgelb Dunkel (<i>Dark Naples Yellow</i>)	.10
Neapelgelb Rothlich (<i>Reddish Naples Yellow</i>)	.10
Neapelgelb Grun (<i>Greenish Naples Yellow</i>)	.10
Romischer Ocker (<i>Roman Ochre</i>)	.10
Romischer Braun (<i>Roman Brown</i>)	.10

	Per Tube.		Per Tube.
Stil de Grain Jaune (<i>Brown Pink</i>)	.25	Ultramarin Heller (<i>Light Ultra-marine</i>)	.25
Terra de Sienna (<i>Terra de Sienna</i>)	.10	Ultramarin Pariser (<i>Paris Ultra-marine</i>)	.30
Turkish Roth (<i>Turkish Red</i>)	.10	Venetianish Roth (<i>Venetian Red</i>)	.10
Umbra (<i>Umber</i>)	.10	Vandyke Braun (<i>Vandyke Brown</i>)	.10
Ultramarin Dunkel (<i>Dark Ultra-marine</i>)	.30	Vert Emeraude (<i>Emeraude Green</i>)	.50
Ultramarin Gelber (<i>Yellow Ultra-marine</i>)	.25	Wienerroth (<i>Vienna Red</i>)	.25

Edouard's

French Tube Oil Colors.

	Per Tube.		Per Tube.
Bitumen (<i>Bitumen</i>)	.15	Laque Garance Pourpre (<i>Purple Madder Lake</i>)	.55
Bleu Mineral (<i>Mineral Blue</i>)	.15	Laque Garance Rose Doree (<i>Yellow Rose Madder Lake</i>)	.45
Bleu de Berlin (<i>Berlin Blue</i>)	.15	Laque Robert (<i>Robert's Lake</i>)	.25
Blanc d'Argent (<i>Silver White</i>)	.18	Momie (<i>Mummy</i>)	.15
Brun de Fer (<i>Iron Brown</i>)	.25	Noir d'Ivoire (<i>Ivory Black</i>)	.15
Brun de Florence (<i>Florence Brown</i>)	.35	Noir de Pêche (<i>Peach Black</i>)	.15
Brun Rouge (<i>Red Brown</i>)	.15	Ocre Jaune (<i>Yellow Ochre</i>)	.15
Brun Vandyke (<i>Vandyke Brown</i>)	.15	Ocre de Rue (<i>Rue Ochre</i>)	.15
Cobalt (<i>Cobalt</i>)	.50	Ocre d'Or (<i>Golden Ochre</i>)	.15
Cobalt Celeste (<i>Cobalt</i>)	.50	Outremer, No. 1 (<i>No. 1 Ultra-marine</i>)	.50
Cendre Outremer Lapis (<i>Ultra-marine Ash</i>)	1.00	Outremer, Extra Fin (<i>Extra Fine Ultra-marine</i>)	.55
Jaune d'Antimoine (<i>Antimony Yellow</i>)	.40	Rouge Indien (<i>Indian Red</i>)	.20
Jaune Brilliant (<i>Brilliant Yellow</i>)	.15	Terra Verte (<i>Terra Verte</i>)	.15
Jaune Brilliant de Roma (<i>Roman Brilliant Yellow</i>)	.15	Terra Verte, Brulee (<i>Burnt Terra Verte</i>)	.15
Jaune Cadmium (<i>Cadmium Yellow</i>)	.80	Terra Ombre (<i>Raw Umber</i>)	.15
Jaune de Chrome Clair (<i>Light Chrome Yellow</i>)	.15	Terra Ombre Brulee (<i>Burnt Umber</i>)	.15
Jaune Indien (<i>Indian Yellow</i>)	.50	Terra de Sienna (<i>Raw Sienna</i>)	.15
Jaune Mineral (<i>Mineral Yellow</i>)	.15	Terra de Sienna Brulee (<i>Burnt Sienna</i>)	.15
Jaune de Naples (<i>Naples Yellow</i>)	.15	Vert Cobalt (<i>Cobalt Green</i>)	.55
Jaune de Naples vert (<i>Green Naples Yellow</i>)	.15	Vert Emeraude (<i>Emerald Green</i>)	.50
Jaune Pinart (<i>Pinart Yellow</i>)	.50	Vert Paul Veronese (<i>Paul Veronese Green</i>)	.15
Laque Brun Jaune (<i>Yellow Brown Madder Lake</i>)	.40	Vermillion (<i>Vermillion</i>)	.35
Laque Garance No. 1 (<i>No. 1, Madder Lake</i>)	.50		

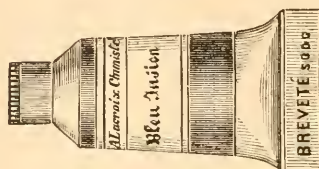
Breidbach's Oil Colors.

	Per Tube.
Breidbach's Carmine Paste, in small tubes, $\frac{1}{2}$ x 2 inches,	.25
Breidbach's Carmine Paste, in large tubes, 1 x 4 inches,	.40
Breidbach's Carmilion, in small tubes, $\frac{1}{2}$ x 2 inches,	.10
Breidbach's Carmilion, in large tubes, 1 x 4 inches,	.40

Lacroix's

Colors for Tile and China Painting.

In Tubes.



Size of Tubes.

Blanc Chinois (<i>Chinese White</i>) . . . . .	.22	Noir d'Ivoire (<i>Ivory Black</i>) . . . . .	.18
Blanc Fixe (<i>Permanent White</i>) . . . . .	.18	Ocre (<i>Yellow Ochre</i>) . . . . .	.22
Bleu Ciel Azur (<i>Sky Blue</i>) . . . . .	.22	Ocre Fonce (<i>Deep Ochre</i>) . . . . .	.22
Bleu Ciel Clair (<i>Light Sky Blue</i>) . . . . .	.22	Pourpre, No. 2 (<i>No. 2 Purple</i>) . . . . .	.45
Bleu Fonce (<i>Dark Blue</i>) . . . . .	.18	Pourpre Cramoisi (<i>Crimson Purple</i>) . . . . .	.65
Bleu Ordinaire (<i>Common Blue</i>) . . . . .	.18	Pourpre Riche (<i>Deep Purple</i>) . . . . .	.55
Bleu Outremer Riche (<i>Deep Ultramarine Blue</i>) . . . . .	.30	Pourpre Rubis (<i>Ruby Purple</i>) . . . . .	.75
Bleu Riche (<i>Deep Blue</i>) . . . . .	.22	Relief (<i>Relief</i>) . . . . .	.18
Bleu Victoria (<i>Victoria Blue</i>) . . . . .	.18	Rouge Capucine (<i>Capucine Red</i>) . . . . .	.22
Brun 3 Bitume (<i>Bitumen Brown</i>) . . . . .	.22	Rouge Chair, No. 1 (<i>Flesh Red, No. 1</i>) . . . . .	.22
Brun Clair (<i>Light Brown</i>) . . . . .	.22	Rouge Chair, No. 2 (<i>Flesh Red, No. 2</i>) . . . . .	.22
Brun 4 Fonce ou 17 (<i>Dark Brown</i>) . . . . .	.22	Rouge Chair, Fonce (<i>Flesh Red, Dark</i>) . . . . .	.22
Brun Jaune (<i>Yellow Brown</i>) . . . . .	.22	Rouge Laqueux (<i>Lake Red</i>) . . . . .	.25
Brun M ou 108 (<i>M or 108 Brown</i>) . . . . .	.22	Rouge Orange (<i>Orange Red</i>) . . . . .	.25
Brun Rouge Riche (<i>Deep Red Brown</i>) . . . . .	.22	Vert, No. 5, Pre (<i>No. 5 Grass Green</i>) . . . . .	.22
Brun Sepia (<i>Sepia Brown</i>) . . . . .	.22	Vert, No. 6, Brun (<i>No. 6 Brown Green</i>) . . . . .	.22
Carmin Tendre, A (<i>Light Carmine A</i>) . . . . .	.22	Vert, No. 7, Noir (<i>No. 7 Dark Green</i>) . . . . .	.22
Carmin Tendre, No. 1 (<i>Light Carmine No. 1</i>) . . . . .	.22	Vert, No. 36, T (<i>No. 36, T Green</i>) . . . . .	.22
Carmin, No. 2 (<i>No. 2 Carmine</i>) . . . . .	.25	Vert Bleu Riche (<i>Deep Blue Green</i>) . . . . .	.30
Carmin, No. 3, Fonce (<i>No. 3 Dark Carmine</i>) . . . . .	.30	Vert Chrome, 3 B (<i>No. 3 B Chrome Green</i>) . . . . .	.22
Fondant General (<i>Flux</i>) . . . . .	.18	Vert Chrome Riche (<i>Deep Chrome Green</i>) . . . . .	.22
Gris, No. 1, ou Tendre (<i>No. 1 or Light Gray</i>) . . . . .	.22	Vert Emeraude (<i>Emerald Green</i>) . . . . .	.22
Gris, No. 2 (<i>No. 2 Gray</i>) . . . . .	.22	Vert II, 24 (<i>No. II 24 Green</i>) . . . . .	.22
Gris, No. 6, Perle (<i>No. 6 Pearl Gray</i>) . . . . .	.22	Vert Pomme (<i>Apple Green</i>) . . . . .	.18
Gris Noir (<i>Neutral Gray</i>) . . . . .	.22	Vert Russe (<i>Deep Green</i>) . . . . .	.22
Gris de Platine (<i>Platina Gray</i>)	1.75	Vert de Vessie (<i>Sap Green</i>) . . . . .	.22
Gris Roux (<i>Reddish Gray</i>) . . . . .	.22	Violet de Fer (<i>Violet of Iron</i>) . . . . .	.22
Jaune d'Argent (<i>Silver Yellow</i>) . . . . .	.18	Violet de Fer Teinte Grise (<i>Violet of Iron, Gray Tint</i>) . . . . .	.22
Jaune Fixe (<i>Permanent Yellow</i>) . . . . .	.18	Violet d'Or, Clair (<i>Violet of Gold, Light</i>) . . . . .	.37
Jaune d'Ivoire (<i>Ivory Yellow</i>) . . . . .	.22	Violet d'Or, Fonce (<i>Violet of Gold, Dark</i>) . . . . .	.45
Jaune Jonquille (<i>Jonquil Yellow</i>) . . . . .	.18		
Jaune a Meler — 41 de Seves — (<i>Mixing Yellow</i>) . . . . .	.18		
Jaune Orange (<i>Orange Yellow</i>) . . . . .	.18		
Laque Carmince (<i>Carmine Lake</i>) . . . . .	.37		
Noir Corbeau (<i>Raven Black</i>) . . . . .	.22		

Lacroix's

Colors for Grounds.

In Tubes.

(Not for mixing.)

Bleu Celeste (<i>Celestial Blue</i>) . . . . .	.25	Jaune Chinois (<i>Chinese Yellow</i>) . . . . .	.18
Bleu Indien (<i>Indian Blue</i>) . . . . .	.30	Lilas Fusible (<i>Fusible Lilac</i>) . . . . .	.22
Bleu Lavande (<i>Lavender Blue</i>) . . . . .	.18	Mais (<i>Maize</i>) . . . . .	.22
Bleu Marin (<i>Marine Blue</i>) . . . . .	.30	Mauve (<i>Mauve</i>) . . . . .	.37
Brun Mordore (<i>Golden Brown</i>) . . . . .	.22	Rose Pompadour (<i>Pompadour Pink</i>) . . . . .	.37
Cafe au Lait (<i>Light Coffee Brown</i>) . . . . .	.18	Saumon (<i>Salmon</i>) . . . . .	.22
Carmelite (<i>Carmelite</i>) . . . . .	.18	Turquoise Bleu (<i>Turquoise Blue</i>) . . . . .	.30
Celadon (<i>Celadon</i>) . . . . .	.22	Turquoise Vert (<i>Turquoise Green</i>) . . . . .	.30
Chamois (<i>Chamois</i>) . . . . .	.18	Vert pour Fonds (<i>Green for</i>	
Coraïl (<i>Coral</i>) . . . . .	.18	<i>Grounds</i>) . . . . .	.22
Gris d'Acier (<i>Steel Gray</i>) . . . . .	.22	Vert-d'Eau au Cuivre (<i>Copper Wa-</i>	
Gris Tourterelle (<i>Turtle Dove</i>		<i>ter Green</i>) . . . . .	.18
<i>Gray</i>) . . . . .	.22	Vert-d'Eau au Chrome (<i>Chrome</i>	
Isabelle (<i>Isabelle</i>) . . . . .	.18	<i>Water Green</i>) . . . . .	.18

A good precaution in using tube colors consists in not placing them in the box on the same side each time. This prevents the color from making a deposit by separating from the liquid with which it is mixed.

Tube colors should be kept away from the heat.

Lacroix's

Colors in Boxes.

Wooden Boxes containing Brushes, Palette Knives, etc.	. .	\$7.00 to \$13.00
Japanned Tin Boxes “ “	. .	9.00 to 10.50
For empty Japanned Boxes, see Metal Ware.		

Sundries.

Prepared Gold, for Painting on Porcelain and China	Per box,	.80
“ “ “ “ “	Per bottle,	1.00
“ “ “ “ “	“	2.00
Oil of Lavender	“	.25
Oil of Turpentine	“	.15
Fat Oil	“	.25
Tinting Oil	“	.25
Oil of Cloves	“	.25
Balsam of Copaiva	“	.25

For China Slabs, see CHINA-WARE.

Camel's Hair, Sable and Fitch Brushes, suitable for China and Tile Decoration, see BRUSHES.

For Glass Slabs and Mullers, see GLASS-WARE.

For Walnut Hand Rests, see EASELS, etc.

Books.

China Painting. By Florence Lewis. Illustrated	2.50
China Painting. By M. Louise McLaughlin . . . . .	.75
Handbook on China and Pottery Painting. By J. C. L. Sparkes . . . . .	.45
The Art of Painting on China . . . . .	.40
A Guide to Porcelain Painting. By S. T. Whiteford	1.00



SIZE OF TUBES.

Water Colors, in Collapsible Tubes.

25 CENTS PER TUBE.

Antwerp Blue
Bistre
Blue Black
Brown Ochre
Brown Pink
Burnt Sienna
Burnt Umber
Chinese White
Chrome, 1, Lemon
Chrome, 2, Yellow
Chrome, 3, Orange
Chrome, 4, Dp. Orange
Cologne Earth
Dragon's Blood
Emerald Green
Flake White

Gamboge
Hooker's Green, 2
Indian Red
Indigo
Italian Ochre
Italian Pink
Ivory Black
King's Yellow
Lamp Black
Light Red
Naples Yellow
Neutral Tint
Olive Green
Orange Orpiment
Payne's Gray

Permanent Blue
Permanent White
Prussian Blue
Prussian Green
Raw Sienna
Raw Umber
Red Lead
Roman Ochre
Sap Green
Terre Verte
Vandyke Brown
Venetian Red
Vermilion
Yellow Lake
Yellow Ochre

45 CENTS PER TUBE.

Black Lead
Brown Madder
Chinese Orange
Ceruleum
Crimson Lake
Indian Lake

Italian Ultra
Magenta
Mauve
Mars Yellow
Orange Vermilion

Purple Lake
Scarlet Vermilion
Scarlet Lake
Sepia
Roman Sepia
Warm Sepia

65 CENTS PER TUBE.

Azure Blue
Cobalt
Indian Yellow

French Ultramarine
Lemon Yellow

Veronese Green
Violet Carmine

90 CENTS PER TUBE.

Aureolin
Burnt Carmine
Carmine
Cadmium, Pale
Cadmium, Yellow

Cadmium, Orange
Cadmium, Deep Orange
Dahlia Carmine
Gallstone
Green Oxide of Chromium

Intense Blue
Madder Lake
Mars Orange
Pink Madder
Rose Madder

140 CENTS PER TUBE.

Deep Rose
Extract Madder Carmine

Purple Madder
Smalt

Ultra Ash

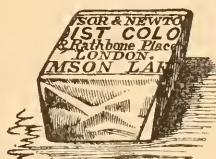
Rose Carthame . . . per tube, 50 Cents.

Winsor & Newton's

Moist Water Colors, in Whole and Half Pans.



Whole Pan.



Half Pan.

WHOLE PANS, 25 CENTS; HALF PANS, 13 CENTS.

Antwerp Blue
Bistre
Blue Black
Brown Ochre
Brown Pink
Burnt Sienna
Burnt Umber
Chinese White
Chrome Yellow
Cologne Earth
Deep Chrome
Emerald Green
Gamboge

Hooker's Green, No. 1
Hooker's Green, No. 2
Indigo
Indian Red
Italian Pink
Ivory Black
Lamp Black
Light Red
Mauve
Naples Yellow
Neutral Tint
New Blue
Olive Green
Orange Chrome

Payne's Gray
Prussian Blue
Prussian Green
Raw Sienna
Raw Umber
Roman Ochre
Sap Green
Terre Verte
Vandyke Brown
Venetian Red
Vermilion
Yellow Lake
Yellow Ochre

WHOLE PANS, 45 CENTS; HALF PANS, 23 CENTS.

Brown Madder
Cerulean Blue
Crimson Lake
Leitch's Blue (or Cyanine
Blue)

Mars Yellow
Neutral Orange
Purple Lake
Roman Sepia
Rubens' Madder

Scarlet Lake
Scarlet Vermilion
Sepia
Warm Sepia

WHOLE PANS, 55 CENTS; HALF PANS, 28 CENTS.

Cobalt Blue
Indian Yellow

Lemon Yellow
Orange Vermilion
Violet Carmine

Viridian (or Veronese
Green)

WHOLE PANS, 90 CENTS; HALF PANS, 45 CENTS.

Aureolin
Burnt Carmine
Cadmium Orange
Cadmium Yellow
Carmine
Field's Orange Vermilion

French Blue (or French
Ultramarine)
Gallstone
Green Oxide of Chromium
Indian Purple
Intense Blue

Mars Orange
Pale Cadmium Yellow
Pink Madder
Pure Scarlet
Rose Madder (or Madder
Lake)

WHOLE PANS, \$1.40; HALF PANS, 70 CENTS.

Madder Carmine

Purple Madder
Smalt

Ultramarine Ash

Miscellaneous.

HALF PANS, 13 CENTS.

Bronze
Charcoal Grey
Chrome, r, Lemon

Dragon's Blood
Green Bice
King's Yellow

Orange Orpiment
Verdigris

HALF PANS, 23 CENTS.

Chinese Orange

Magenta

HALF PANS, 33 CENTS.

Azure Blue

Veronese Green

HALF PANS, 45 CENTS.

Dahlia Carmine

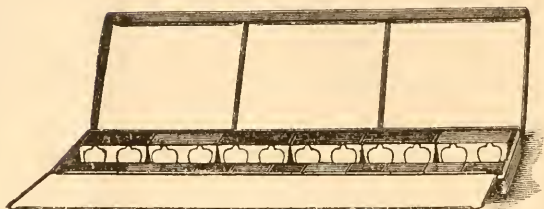
Madder Lake
Mars Violet

Transp. Oxide Chromium

HALF PANS, 70 CENTS.

Deep Rose

| Extr. Madder Carmine | Salm



Japanned Tin Boxes to hold Whole or Half Pans of Moist Colors, fitted up to order as desired. For prices empty Japanned Boxes, see METAL WARE.

For the guidance of amateurs, we suggest the following convenient arrangement of Water Colors, recommended by eminent foreign artists:—

For Sea and Landscape Painting.**Whole Pans.**

Gamboge, Indian Yellow, Yellow Ochre, Roman Ochre, Raw Sienna, Burnt Sienna, Venetian Red, Madder Brown, Vandyke Brown, Cerulean, Cobalt, Prussian Blue, Indigo, Lamp Black, and Sepia.

Half Pans.

Cadmium Yellow, Cadmium Orange, Scarlet Vermilion, Carmine, Rose Madder, Purple Lake, Madder Carmine, Violet Carmine, Ultramarine Ash, and Veronese Green.

Figure and Interior Architecture.**Whole Pans.**

Naples Yellow, Indian Yellow, Cadmium Yellow, Yellow Ochre, Raw Sienna, Mars Yellow, Mars Orange, Venetian Red, Vermilion, Rose Madder, Carmine, Burnt Sienna, Raw Umber, Burnt Umber, and Vandyke Brown.

Half Pans.

Lemon Yellow, Brown Pink, Emerald Green, Veronese Green, Cerulean, Cobalt, French Blue, Prussian Blue, Indigo, Payne's Grey, Ivory Black, and Indian Red.

Figure, Fruit, Flower, Etc.**Whole Pans.**

Gamboge, Lemon Yellow, Indian Yellow, Raw Sienna, Venetian Red, Scarlet Vermilion, Rose Madder, Cerulean, Cobalt, French Blue, Madder Brown, Sepia, Brown Pink, and Veronese Green.

Half Pans.

Cadmium Yellow, Cadmium Orange, Madder Carmine, Carmine, Rose Madder, Purple Madder, Purple Lake, Violet Carmine, Indigo, Indian Red, Lamp Black, Ultramarine Ash, and Burnt Carmine.

Figure, Animal and Landscape.

Whole Pans.

Gamboge, Lemon Yellow, Indian Yellow, Raw Sienna, Brown Pink, Veronese Green, Indigo, French Blue, Cobalt, Cerulean Blue, Burnt Sienna, Indian Red, Scarlet Vermilion, Brown Madder, and Sepia.

Half Pans.

Cadmium Yellow, Cadmium Orange, Yellow Ochre, Olive Green, Vandyke Brown, Purple Madder, Rose Madder, Purple Lake, and Ultramarine Ash.

Winsor & Newton's

Water Colors in Whole and Half Cakes.



Whole Cake.



Half Cake.

WHOLE CAKES, 25 CENTS; HALF CAKES, 13 CENTS.

Antwerp Blue	Flake White	Payne's Gray
Bistre	Gamboge	Prussian Blue
Blue Black	Hooker's Green, No 1.	Prussian Green
British Ink	Hooker's Green, No 2.	Raw Sienna
Brown Ochre	Indigo	Raw Umber
Brown Pink	Indian Red	Red Chalk
Bronze	Italian Pink	Red Lead
Burnt Roman Ochre	Ivory Black	Red Ochre
Burnt Sienna	King's Yellow	Roman Ochre
Burnt Umber	Lamp Black	Sap Green
Chinese White	Light Red	Terre Verte
Chrome Yellow	Naples Yellow	Vandyke Brown
Cologne Earth	Neutral Tint	Venetian Red
Deep Chrome	New Blue	Vermilion
Dragon's Blood	Olive Green	Yellow Lake
Emerald Green	Orange Chrome	Yellow Ochre

WHOLE CAKES, 45 CENTS; HALF CAKES, 23 CENTS.

Black Lead	Mars Yellow	Scarlet Lake
Brown Madder	Neutral Orange	Scarlet Vermilion
Cerulean Blue	Purple Lake	Sepia
Chalon's Brown	Roman Sepia	Warm Sepia
Crimson Lake	Rubens' Madder	

WHOLE CAKES, 55 CENTS; HALF CAKES, 28 CENTS.

Cobalt Blue	Orange Vermilion	Viridian (or Veronese Green)
Lemon Yellow	Indian Yellow	
	Violet Carmine	

WHOLE CAKES, 90 CENTS; HALF CAKES, 45 CENTS.

Aureolin	French Blue (or French Ultramarine)	Mars Orange
Burnt Carmine	Gallstone	Pale Cadmium Yellow
Cadmium Orange	Green Oxide of Chromium	Pink Madder
Cadmium Yellow	Indian Purple	Pure Scarlet
Carmine	Intense Blue	Rose Madder
Field's Orange Vermilion		

WHOLE CAKES, \$1.40; HALF CAKES, 70 CENTS.

Madder Carmine	Purple Madder	Ultramarine Ash
	Smalt	

QUARTER CAKES, \$2.00

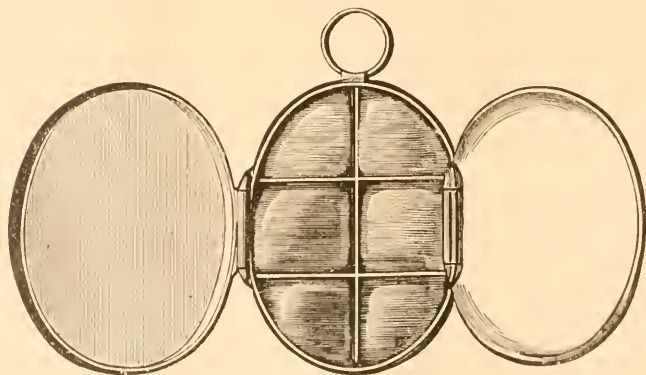
| Genuine Ultramarine |

Winsor & Newton's

Quarter Cake Boxes of Moist Water Colors.

6 Quarter Cakes,	per box,	\$1.40	12 Quarter Cakes,	per box,	\$2.35
8 "	"	1.80	14 "	"	2.70
10 "	"	2.00	16 "	"	3.20

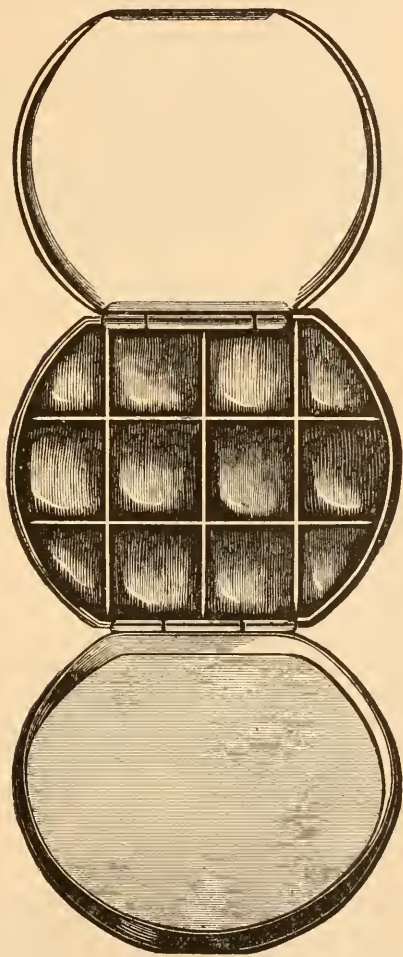
Winsor & Newton's Locket Box.



Exact Size of Box.

Fitted with 6 Moist Colors, can be carried on Watch Chain \$2.00

Winsor & Newton's Porte-Couleur Box.



Exact Size of Box.

Small and compact for the pocket, containing 12 Moist Colors . . . \$3.50

Winsor & Newton's Oval Pocket Box.

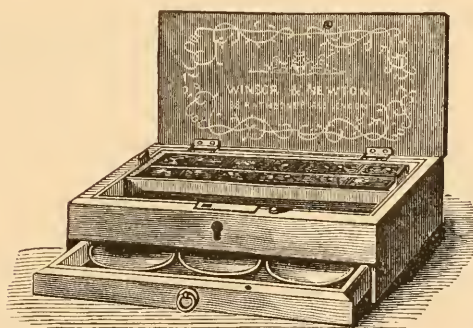
Containing 12 Moist Colors and a division for brushes . . . \$4.00

Similar in shape to Porte Couleur.



LOCK BOX.

12	Half Cake, Polished Mahogany, "Lock" Box, with Brushes and Pencil	\$3.15
18	" " " " " "	4.15



LOCK AND DRAWER BOX.

12	Half Cake, Polished Mahogany, "Lock and Drawer" Box, with fittings	\$4.00
18	" " " " " "	5.00
12	Half Cake, Polished Mahogany, "Complete" Box, with Brushes and fittings	4.50
18	Half Cake, " " " " " "	5.75
12	Half Cake, Polished Mahogany, "Caddy Lid" Box, with Brushes, Pencils, Stumps, and fittings	6.75
18	Half Cake, " " " " " "	8.25

We also carry in stock some of the most elegant fitted polished Mahogany Boxes of Messrs. Winsor & Newton's manufacture, ranging in price from 10 to 50 dollars. These beautiful boxes are particularly adapted for presents.

Rowney's Society of Art Color Boxes,

Containing 10 Colors, with Brushes.

Gamboge
Yellow Ochre
Vermilion

Light Red
Burnt Sienna
Sepia

Lake
Vandyke Brown
Indigo

Ultramarine.

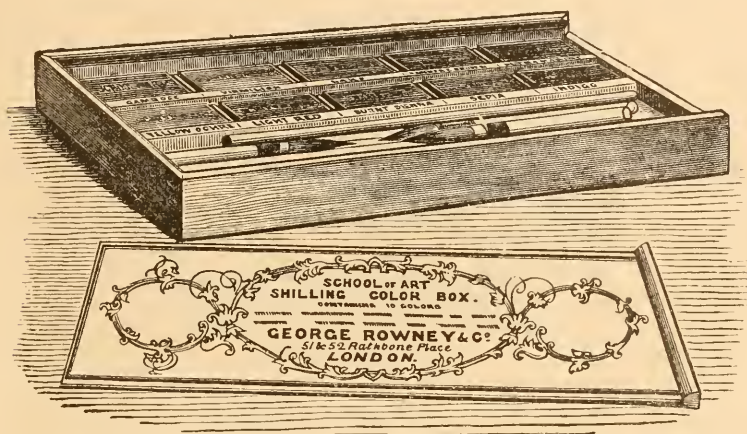


Fitted according to above arrangement, in slide cover box, 35

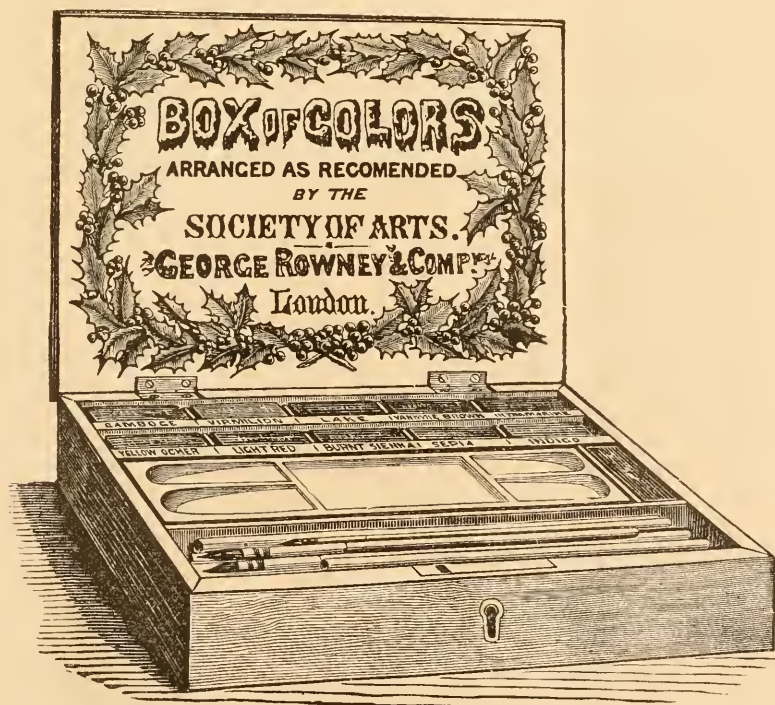


Rowney's Polished Mahogany Box, fitted with School of Art Colors, Brushes,
and Saucers,

\$1.25

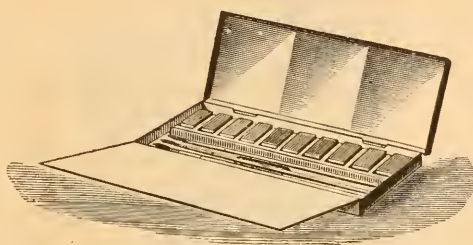


Fitted according to preceding arrangement (in slide cover box) 45



Rowney's Polished Mahogany Lock Box, fitted with School of Art Colors, complete \$1.80

Rowney's School of Art Box,



Containing 12 Moist Water Colors and Brushes45
--	-----

Handy Sketching Case.



This article, which can conveniently be carried in the sketcher's pocket, will hold every requisite, in the most convenient and compact form, for making a water-color drawing or sketch 7 x 5 inches, viz.: a block of that size, thirteen half pans moist colors, brush case and brushes, glass water-bottle, water-pan, sponge, lead-pencil and India-rubber, with a space for a pad of blotting-paper to point the brushes, and linen rag to wipe the palette clean when the work is done, so that the case can be closed without danger to the drawing or sketch. When opened, it is ready for immediate use, being held by the thumb-ring (which is on *top* of the case when closed), and rests on the left arm like an ordinary palette, leaving right hand at perfect liberty for work. The case, when opened, is 14 inches long by 5 inches wide, being elastic in the middle, at the wrist joint.

Thickness of case closed is less than one inch.

Price, with fittings, without brushes and colors	\$4.00
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Stencil Paper.

Oiled, 48 inches wide, per yard25
Plain, " " " thin10
" " " medium12
" " " thick15

Designers' Colors.



The Colors in the following lists are put up in both dry and moist form, and have been carefully selected with especial reference to the wants of designers and draughtsmen. To all who need fine, clear working colors, we can confidently recommend them. From the many indorsements, received since their introduction, we make the following extract from a letter of Professor CHARLES KASTNER, (Director of the Lowell Practical School of Design, in this city:) — "I am very well satisfied with the colors you have put up for the school. I can recommend them, and would not use any others for our school and our designs."

Dry Colors.

In Wide-Mouthed Bottles.

These Colors are finely ground and must not be mistaken for the ordinary colors sold for the use of house painters.

Burnt Sienna . . . . .	.12	Milori Green, Medium . . . . .	.12
Burnt Umber . . . . .	.12	Milori Green, Deep, . . . . .	.12
Chrome Yellow, Light . . . . .	.12	Magenta Lake . . . . .	.25
Chrome Yellow, Medium . . . . .	.12	Olive Green . . . . .	.12
Chrome Yellow, Deep . . . . .	.12	Orange Mineral . . . . .	.25
Carmine . . . . .	.40	Prussian Blue . . . . .	.12
Cobalt Blue, . . . . .	.12	Raw Sienna . . . . .	.12
Emerald (Paris) Green . . . . .	.12	Raw Umber . . . . .	.12
Geranium Lake, Light . . . . .	.25	Turkey Red . . . . .	.20
Geranium Lake, Dark . . . . .	.25	Ultramarine Blue . . . . .	.12
Golden Ochre . . . . .	.12	Vermilion, Light Eng. . . . .	.30
Imperial Madder . . . . .	.50	Vandyke Brown . . . . .	.12
Indian Red . . . . .	.12	White, Flake . . . . .	.12
Milori Green, Light, . . . . .	.12	White, Silver . . . . .	.12

Moist Colors.

In Wide-Mouthed Jars, with Metallic Covers.

In preparing these Colors, add a little mucilage to prevent their rubbing.

Black, Ivory . . . . .	.15	Mauve Lake, Blue Shade . . . . .	.30
Burnt Sienna . . . . .	.15	Mauve Lake, Red Shade . . . . .	.30
Burnt Umber . . . . .	.15	Milori Green, Light . . . . .	.25
Chrome Yellow, Light . . . . .	.20	Milori Green, Dark . . . . .	.25
Chrome Yellow, Medium . . . . .	.20	Olive Green . . . . .	.30
Chrome Yellow, Dark . . . . .	.20	Orange Mineral . . . . .	.30
Cobalt Blue . . . . .	.25	Paris Green . . . . .	.20
Cremnitz White . . . . .	.15	Prussian Blue . . . . .	.20
Flake White . . . . .	.15	Raw Sienna . . . . .	.15
Golden Ochre . . . . .	.15	Scarlet Lake, . . . . .	.75
Geranium Lake, Light . . . . .	.50	Turkey Red . . . . .	.30
Geranium Lake, Dark . . . . .	.50	Ultramarine Blue . . . . .	.20
Indian Red . . . . .	.15	Ultramarine Green . . . . .	.20
Imperial Madder . . . . .	.75	Vandyke Brown . . . . .	.15
Kosiki Lake . . . . .	.30	Venetian Red . . . . .	.15
Maroon Lake . . . . .	.25	Vermilion, English Light . . . . .	.40

We would remind customers that we are the original manufacturers of these Colors, and that all genuine Designers' Colors bear our Trade Mark.



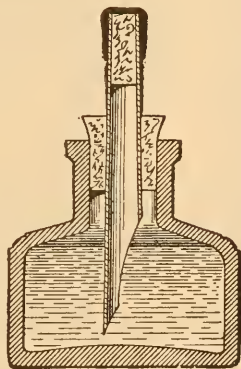
Specially Prepared Liquid Chinese Ink

For Artists, Architects, Engineers, Surveyors,—For Maps, Pen and Ink Drawing, etc.

This Ink is carefully prepared from the finest brands of Chinese or India Inks, and maintains all the superior qualities for which these Inks are celebrated.

It is a rich deep black capable of being graduated to the most delicate tints for washes. It will not wash up when once dry; is perfectly free from sediment; and will keep good for any length of time.

Per bottle, 30 cents.



Higgins' American Drawing Ink.

Like India Ink, the coloring base of this is of course, CARBON, but it is presented in a fluid state, or in so intimate a union with water that the AMERICAN DRAWING INK is practically a SOLUTION OF CARBON, being more like a dye than a paint.

It is strictly an AMERICAN PRODUCT, being produced according to a new formula, by a new process, and with new apparatus. It is very fine, more intensely black, and more perfectly fluid than most India inks. The finest lines of the most intense blackness may be drawn with it continuously; and it will work in a pen without cleaning or refilling for a long time.

This ink is put up in a special bottle, with a device for filling the pen superior to the usual brush, and is thus ready for instant use.

To suit different kinds of drawing, and meet the preference of some draughtsmen, three kinds of ink are supplied, viz.:

GENERAL DRAWING INK, which is suitable for all general drawing, whether lines or tints, or for pen or brush work. This quality is almost identical with the finer kinds of India Ink, but is much preferable in being already fluid and in being finer and blacker.

WATERPROOF DRAWING INK. This ink is best for all working, architectural, map, or other drawing designed to stand moisture, rough handling, or washing over with colors. *Lines drawn with this ink will resist washing immediately after drying.* It is not recommended for brush shading, but for lining or solid black work is superb. It is the best ink for Whatman's or other hard papers, on which it flows freely, giving fine, solid, black lines.

For tracings, the General or Waterproof is recommended. For **PATENT OFFICE** or other **PHOTO-DRAWINGS** the General is usually recommended, but the Waterproof may also be used. These two qualities will enable any kind of work to be executed with satisfaction. Price 25 cents per bottle.

CARMINE WATERPROOF INK, " 40 " "



Liquid Colors and Mediums.

For Water Color Painting.

Permanent Chinese White, W. & N.'s	. . . . .	per tube,	.30
Permanent Chinese White, W. & N.'s	. . . . .	per bottle,	.30
Permanent Chinese White, Rowney's	. . . . .	"	.30
Permanent Chinese White, Rowney's	. . . . .	per tube,	.30
Schoenfeld's Chinese White	. . . . .	"	.25
Schoenfeld's Chinese White	. . . . .	per bottle,	.30
Liquid Indelible Brown Ink	. . . . .	"	.35
Liquid Prout's Brown	. . . . .	"	.35
Liquid Sepia	. . . . .	"	.35
Liquid Carmine	. . . . .	"	.35
Liquid Indian Ink	. . . . .	"	.30

Liquid Indian Ink, half size,	per bottle,	.17
Liquid Ox Gall	"	.30
Water Color Megilp	"	.35
Water Mat Gold Size	"	.35
Liquid Prussian Blue	"	.30
Illuminating Body for Illumination	"	.35
Prepared Gum Water	"	.20
Raising Preparation	"	.35
Glass Medium for Water Color Painting and Photograph Coloring (No. 1, for first coloring and broad washes; No. 2, for second coloring and finishing, where great brilliancy and depth are required)		
Prepared Ox Gall, in pots	per bottle,	.35
Fancy Colored Inks	per bottle,	.10
White Ink, of superior quality, for Mat manufacturers' use	"	.25
Mucilage	"	.10
Amber Enamel for Pottery Painting	whole size, .50, half size,	.25

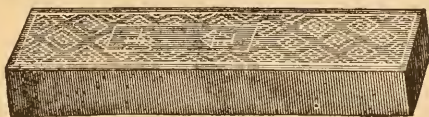
Mouth Glue, Sponges, and Chamois Skins.

Mouth Glue, piece . . . . .	.05
Sponges for use of Artists and Draughtsmen . . . . .	.08 to .20
Chamois Skins of all sizes and qualities (our own importation) . . . . .	.20 to \$1.00

India Ink.



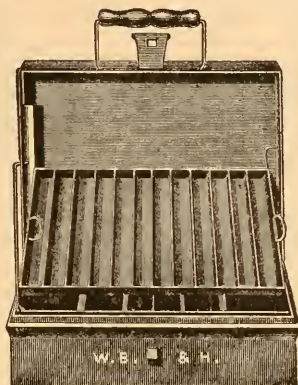
Very Choice. Full Size.



Very Choice, Square Sticks, 3½ inches long	per stick,	\$2.00
Very Choice, Square Sticks, half size	"	1.00
Extra Fine Quality, Square Sticks, 3 inches long	"	.60
Choice, Square Sticks, 3 inches long	"	.60
Choice, Square Sticks, Gilt, 2½ inches long	"	.35
Medium Quality, Round, Gilt, Lion Head	"	.50
Medium Quality, Round, Gilt, Lion Head, Small,	"	.15
Black, Lion Head	"	.25

Empty Tin Oil Sketching Box,

Half size.



- No. 10. Japanned Tin Sketch Box, arranged for Colors, Brushes, Oils, &c.,
size, 7 x 9, \$1.75
- No. 12. Japanned Tin Sketch Box, arranged for Colors, Brushes, Oils, &c.,
size, $5\frac{1}{2}$ x $9\frac{1}{4}$, 1.00

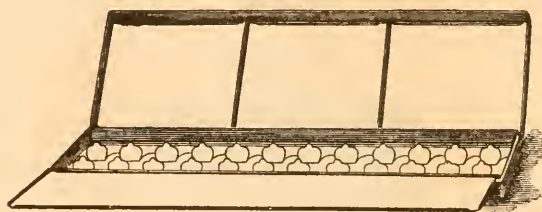


Empty Tin Oil Sketching Boxes.

- No. 2. Japanned Tin Sketch Box, arranged for Palette, Colors, Brushes,
Oils, etc., with inside flaps, $9\frac{1}{4}$ x $13\frac{1}{2}$ (style of cut) . . . \$2.25
4. Japanned Tin Sketch Box, arranged for Palette, Colors, Brushes,
Oils, etc., bottom compartment for Mill Boards, size 10 x 14 . . . 2.00
6. Japanned Tin Sketch Box, same as No. 4, without the compartment
for Mill Boards, size $9\frac{1}{4}$ x $13\frac{1}{2}$ 1.85
8. Japanned Tin Sketch Box, arranged for Palette, Colors, Brushes,
Oils, etc., size 9 x 13 1.65

Boxes "fitted" to order with colors, Brushes, Oils, etc., complete.

Japanned Tin Boxes for Moist Water Colors.



Empty Boxes.

These boxes are made of japanned tin, and their flaps being of a dead-white color inside, serve as palettes.

[illegible]

Thumb-Hole Boxes.

To contain 11 Whole Pans	.	.	.	.	.	.	.	\$2.25
" 17 "	.	.	.	.	.	.	.	2.75
" 21 "	.	.	.	.	.	.	.	3.00

Japaned Water Color Boxes.

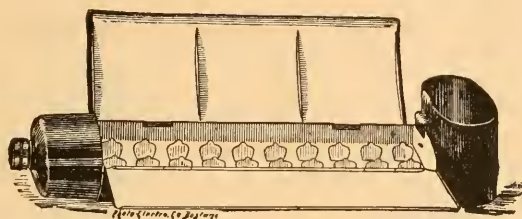
For Tube Water Color.

For 10 tubes	.	.	each	\$2.75	For 20 tubes	.	.	each	\$4.00
" 12 "	.	.	"	3.00	" 24 "	.	.	"	4.50
" 15 "	.	.	"	3.40					

Japaned Tin Boxes for China Colors.

Empty.

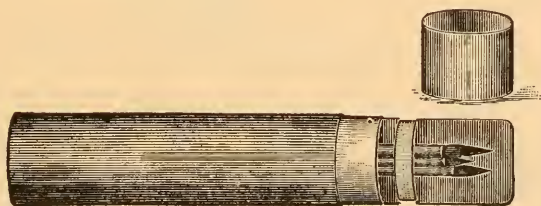
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Empress Boxes for Moist Water Colors.

Combined with Water Bottle and Palette Cup.

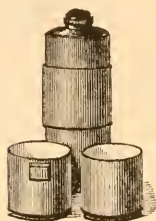
Round Box, to contain 8 half pans,	.	.	.	.	.	.	.	.
" " " 10 "	.	.	.	.	.	.	.	.
" " " 12 "	.	.	.	.	.	.	.	.
Oval Box to contain 16 half pans,	.	.	.	.	.	.	.	.
" " " 20 "	.	.	.	.	.	.	.	.



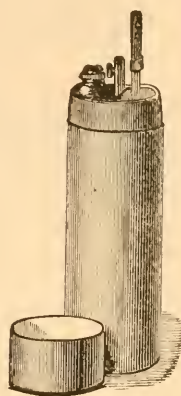
Brush Cases.

[illegible]

Winsor & Newton's Water Bottles.



1



2

No. 1.	Round Japanned Tin Water Bottle with 2 Cups, size $3\frac{1}{2} \times 1\frac{1}{2}$	\$1.00
2.	Sketcher's Japanned Tin Water Bottle and Brush Case, complete, size, $8 \times 2\frac{3}{4}$	2.80
3.	Oval Japanned Tin Water Bottle with 2 Cups, $3\frac{3}{4} \times 1\frac{1}{2}$	1.30
4.	" " " " $5\frac{1}{4} \times 1\frac{3}{4}$	1.50
5.	" " " " $6\frac{1}{4} \times 2$	1.80
6.	" " " " $8\frac{1}{4} \times 3$	2.25
7.	" " " " $3\frac{3}{4} \times 2\frac{1}{2}$	1.55

Palette Cups, Brush Cleaners, &c.



1



2



5



6



3



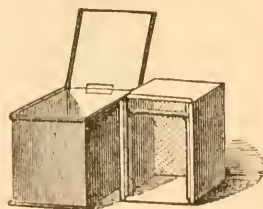
4



7



8



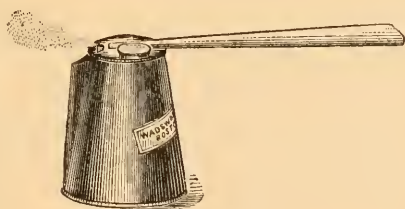
9

Conical Tin Cups, No. 1	.08
" " Double, No. 2	.10
" " with Covers, No. 3	.10
" " Double, with Covers, No. 4	.15
" " with brass screw Covers, Single	.15
" " " Double	.25
Brush Washers	.33
" with Covers	.40
" " Screw Top	.65

W. & N.'s Water Color Cups, Single, with necks for corks, No. 5 . . .	.30
“ “ “ Double, “ “ No. 6 . . .	.55
“ Improved Palette Cups, Single, with movable rims, No. 7 . . .	.25
“ “ “ Double, “ “ No. 8 . . .	.40
“ Japanned Brush Washer . . . . .	.75
“ Brush Cleaner, with Cover, No. 9 . . . . .	.80
“ Flat Japanned Oil Bottle, with Screw Top . . . . .	.80
W. H. & Co.'s Flat Japanned Oil Bottle, with Screw Top, thin, for No. 4 boxes . . .	.50

Wadsworth, Howland & Co.'s

IMPROVED FIXATIF APPARATUS.



Improved Fixateur.

Pasteboard Box containing our Improved Fixateur (see above cut) Fixatif, and bottle Liquid Special.

Box, complete,	\$1.50
Fixateur, japanned, , . . . . .	.50
“ nickeled, . . . . .	.75

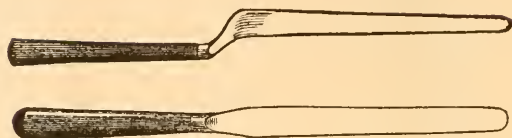
Tin Tube Atomizers,



With Hinge, to fold for the Pocket.

Japanned, each25
--------------------------	-----

Palette Knives.



			3 in.	3 1-2 in.	4 in.	4 1-2 in.	5 in.	5 1-2 in.	6 in.
Cocoa Handles . . .	each,		.25	.25	.30	.33	.35	.38	.42
" Trowel . . .	"		.40	.45	.50	.55	.60		

French Palette Knives.

Very flexible, and suitable for applying color.

No. 1 A.	4 inches,	True Trowel Form,							\$1.25
" 2 B.	5 "	Straight Blade, Round Point,							1.00
" 2.	3 "	True Trowel Form,							1.00
" 3.	5 "	Trowel, Curved Centre, Round Point,							1.00
" 5.	3 1/2 "	Trowel, Small Tapered Point,							1.00
" 6.	4 "	Straight Blade, Irregular Side, and Small, Very Flexible Point,							1.00
" 8.	3 1/2 "	Straight Blade, Spear Shape,							1.00
" 9.	3 1/2 "	Trowel, Tapered Point,							1.00
" 10.	3 1/2 "	Straight Trowel, Round Point,							1.00

Pocket Palette Knives.

Pearl Handle,	\$1.25	Ivory Handle,75
Shell Handle,	1.25	Bone Handle,60

Gilders' Knives.

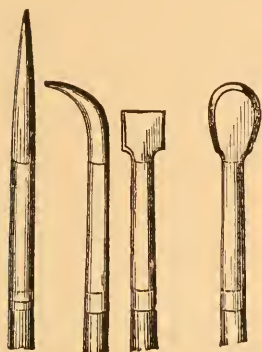
Single50	Double60
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Ivory Palette Knives.

No. 1.22	No. 3.60
2.45		
Horn Palette Knives25
" " "30

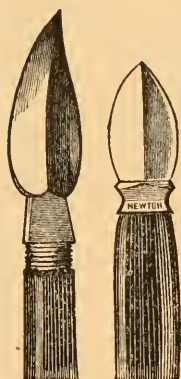
Canvas Pliers.

For Stretching Canvas, small, \$1.50, large, \$1.75



Illuminating Burnishers.

Small size Pencil Point . . . . .	.50
Round and Curved . . . . .	.65
Flat and Wedge Shaped . . . . .	.65
Flat and Round Pointed or Oval . . . . .	.65



Erasers and Scrapers.

Ivory Handle Erasers . . . . .	.50
Cocoa Handle Erasers . . . . .	.40
No. 1 Ebony Handle Scrapers . . . . .	.60
No. 2 " " " " " " " "	.75
Steel Color Scrapers . . . . .	.25

[illegible]

Crayon Holders.



Brass, 4, 5 and 6 inches,	. . . .	. . . . .	. . . . .
Washed or Plated, 4, 5 and 6 inches,	.	.	. ..08, .10 and .12
Conte Portecrayons, Hollow Cedar Centres,	.	.	. . . . .20
" " Hollow Ebony Centres and Plated Ends,	.	.	. . . . .30



Thumb Tacks.

[illegible]

German Silver, Steel Points, No. 1,	$\frac{3}{8}$	inch diam.	.	.	.	.	.	.25
" " " 2,	$\frac{1}{8}$	"	.	.	.	.	.	.30
" " " 3,	$\frac{1}{2}$	"	.	.	.	.	.	.35
" " " 4,	$\frac{1}{6}$	"	.	.	.	.	.	.40
" " " 5,	$\frac{5}{8}$	"	.	.	.	.	.	.45
No. 1, German Silver Steel Points, screwed in and riveted,	$\frac{5}{16}$	in. diam.	.	.	.	.	.	.40
2,	$\frac{1}{8}$	"	.	.	.	.	.	.50
3,	$\frac{1}{2}$	"	.	.	.	.	.	.60
4,	$\frac{1}{6}$	"	.	.	.	.	.	.70
5,	$\frac{5}{8}$	"	.	.	.	.	.	.80

Canvas Tacks.



Intended to be placed between canvas sketches when fresh, to keep them apart sufficiently to insure them against damage.

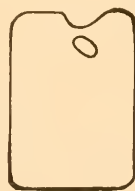
Double Pointed, White,	.	.	.	.	.	.	.	per doz.	.50
" " Ebony,	.	.	.	.	.	.	.	"	.60

Steel Pens.

Gillott's Crow Quill, per doz.	.60	Gillott's Crow Quill, long	
" Lithographic, "	.60	shoulder, per doz.	.70
" Mapping, "	.60	For Kensington Painting, "	.20

CHINA-WARE.

Palettes.

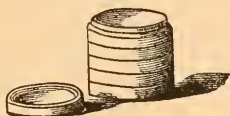


Oval or Square, 3 inches	.	.	.15	Oval or Square, 8 inches	.	.	.45
" 4 "	.	.	.25	" 9 "	.	.	.55
" 5 "	.	.	.30	" 10 "	.	.	.65
" 6 "	.	.	.35	" 11 "	.	.	.80
" 7 "	.	.	.40	" 12 "	.	.	.95

India Ink and Color Slabs.

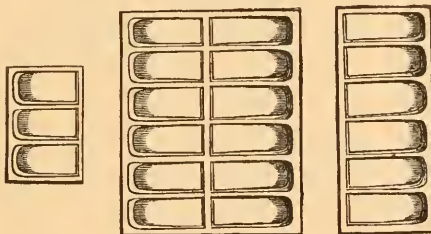
No. 1 Ink Slab, measuring $2\frac{3}{4} \times 1\frac{5}{8}$ inches	.	.	.	.	.	.	.15
4 " " $2\frac{1}{2} \times 4$ "	.	.	.	.	.	.	.25
11 " " $2\frac{7}{8} \times 4\frac{1}{2}$ "	.	.	.	.	.	.	.35
11 $\frac{1}{2}$ " " $3\frac{1}{8} \times 5$ "	.	.	.	.	.	.	.45
Box, or 3 Well Slab	.	.	.	.	.	.	.30
5 Well, and 5 Slant Slab,	.	.	.	.	.	.	.65
Slate Ink Slabs with Plate Glass Cover,	.	.	.	.	.	.	.50

Nests of Cabinet Saucers.



No. 1	Containing 6 Saucers,	$2\frac{1}{2}$ inches in diameter	.	.	.	per set	.60
2	"	6 " $2\frac{3}{4}$ " "	.	.	.	"	.70
3	"	6 " $3\frac{1}{2}$ " "	.	.	.	"	.80

Divided Slants.



3 Divisions	.	.	.	.	.20	8 Divisions	.	.	.	.	.65
4 "	.	.	.	.	.35	12 "	.	.	.	.	.85
5 "	.	.	.	.	.45	12 " Slant with Well	.	.	.	.	1.00
6 "	.	.	.	.	.50	Centre Slant	.	.	.	.	.35

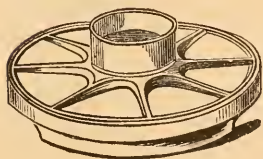
China Slabs.

Slabs for Painting on Porcelain, with 24 Wells for holding Colors, in Tin Case, with Cover and Glass Slab	.	.	.	.	.	.	.	.	.	.	\$2.50
Slab, only	.	.	.	.	.	.	.	.	.	.	1.50
Slab with 18 Wells and Slant, and Cover	.	.	.	.	.	.	.	.	.	.	.90

Patent Ink Slab.

With Cover.

Patent Ink Slab with Cover, $1\frac{3}{4} \times 4\frac{1}{2}$	.	.	.	.	.	.	.	.	.	.50
" " $2\frac{1}{8} \times 5\frac{1}{4}$	.	.	.	.	.	.	.	.	.	.60

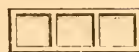


Round Slant and Basin.

For Architects' and Engineers' Office Use.

Each \$1.25

Square Divided Tiles.



3 Divisions30 | 4 Divisions35 | 6 Divisions45

Flat Tiles.

For Decoration.

4 inch square, White and Cream	.	.	.	.	.	.	.	.	.	.12
5 " " "	.	.	.	.	.	.	.	.	.	.15
6 " " "	.	.	.	.	.	.	.	.	.	.20
7 " " "	.	.	.	.	.	.	.	.	.	.35
8 " " "	.	.	.	.	.	.	.	.	.	.40

6 inch in Blue, Green, Drab, Buff, Chocolate and Red, .25, will be furnished to order. Also, Unglazed Tiles, for Painting in Oil Colors.

Thin Porcelains.

For Oil or Water Color Painting.

3 $\frac{1}{4}$ x 2 $\frac{1}{4}$	.	.	.	.	.	.15	4 x 10	.	.	.	.	1.20
3 $\frac{1}{4}$ x 4 $\frac{1}{4}$	.	.	.	.	.	.20	5 x 10	.	.	.	.	1.25
4 $\frac{1}{4}$ x 5 $\frac{1}{2}$	.	.	.	.	.	.45	6 x 12	.	.	.	.	1.50
4 $\frac{1}{4}$ x 6 $\frac{1}{2}$	.	.	.	.	.	.60	6 x 10	.	.	.	.	1.50
3 $\frac{1}{4}$ x 8 $\frac{1}{2}$	.	.	.	.	.	.60	8 x 10	.	.	.	.	2.00
4 x 8	.	.	.	.	.	.75	7 x 14	.	.	.	.	4.50
5 x 8	.	.	.	.	.	1.20	10 x 14	.	.	.	.	5.00

Thin Porcelain Placques.

4 inch,	.	.	.	.	.	.50	7 inch,	.	.	.	.	1.15
5 " "	.	.	.	.	.	.75	8 " "	.	.	.	.	1.25
6 " "	.	.	.	.	.	1.00	10 " "	.	.	.	.	2.25

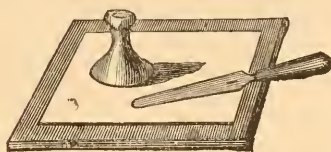
China Placques.

6 inch,	.	.	.	.	.	.35	12 inch,	.	.	.	.	1.00
7 " "	.	.	.	.	.	.40	14 " "	.	.	.	.	1.50
8 " "	.	.	.	.	.	.45	16 " "	.	.	.	.	2.25
9 " "	.	.	.	.	.	.55	18 " "	.	.	.	.	5.00
10 " "	.	.	.	.	.	.60	20 " "	.	.	.	.	7.00

Round Tinting Saucers.

1 $\frac{1}{2}$ inch	.	.	.	.	.	.04	3 inch	.	.	.	.	.	.07
2 "	.	.	.	.	.	.05	3 $\frac{1}{2}$ "	.	.	.	.	.	.08
2 $\frac{1}{2}$ "	.	.	.	.	.	.06	4 "	.	.	.	.	.	.09
2 $\frac{1}{2}$ " Heavy Square Bottom	.	.	.	.	.	.15	3 " Heavy Square Bottom	.	.	.	.	.	.20

GLASS-WARE.



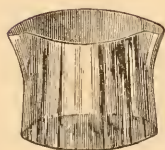
Glass Slabs.

Ground Glass Slabs 6 x 6 inches	.	.	.	.	.	.	.	.	.	.	.70
" 8 x 8 "	.	.	.	.	.	.	.	.	.	.	.85
" 12 x 12 "	.	.	.	.	.	.	.	.	.	.	1.60

Glass Mullers.

1 inch	.	.	.	.	.	.	.	.	.	.	.	.15
1 $\frac{1}{4}$ "	.	.	.	.	.	.	.	.	.	.	.	.25
2 "	.	.	.	.	.	.	.	.	.	.	.	.35
2 $\frac{3}{4}$ "	.	.	.	.	.	.	.	.	.	.	.	.45
3 "	.	.	.	.	.	.	.	.	.	.	.	1.00
4 "	.	.	.	.	.	.	.	.	.	.	.	2.00
4 $\frac{1}{2}$ "	.	.	.	.	.	.	.	.	.	.	.	3.00
5 "	.	.	.	.	.	.	.	.	.	.	.	4.50

Water Glasses.

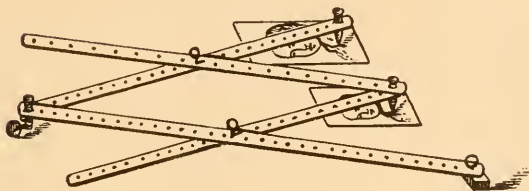


No. 1	.	.	.	.	.	.	.	.	.	.15
2	.	.	.	.	.	.	.	.	.	.25
3	.	.	.	.	.	.	.	.	.	.35
4	.	.	.	.	.	.	.	.	.	.45
Water Glasses with Heavy Bottoms	.	.	.	.	.	.	.	.	.	.15

Reading Glasses.

2 $\frac{1}{8}$ inch diameter	.	.	.	\$1.25	3 $\frac{1}{4}$ inch diameter	.	.	.	\$2.25
2 $\frac{3}{4}$ "	.	.	.	1.60	3 $\frac{3}{4}$ "	.	.	.	2.60
3 "	.	.	.	2.00					

Improved Pentagraphs.



No. 1, Oiled Walnut, without Box	. . . . .	.20
2, Stained Wood, in Box	. . . . .	1.00
3, " " with Wheel Pivot, in Box	. . . . .	2.25

These instruments enlarge or diminish Portraits, Landscapes, Machinery, Architectural and Mathematical Drawings, etc., with the greatest accuracy. They have two long and two short arms moving on two centre pivots. Attached to one of them is a block that fastens to the drawing board or table, and remains stationary. The four arms have the same number of holes (forty-nine), which are the same distance apart, and are numbered from 1 to 49. Besides this, the holes have a graduated scale, showing in what proportion to enlarge or reduce. The scale is marked from $\frac{1}{8}$ of a size to 7 sizes (or eight times larger). When you wish to enlarge, look on the scale for figures denoting the required enlargement, and the number opposite; then adjust the four arms together, all *at the same number*, by shifting the two steel screws. Drawings are reduced in the same manner, with the exception of changing the tracing or pencil points. The instrument closes at one size added to the drawing (or making it twice as large), the numbers on all the four arms at the centre pivots being twenty-six.

Duplex Drawing and Detail Paper.

A Substitute for Manila.

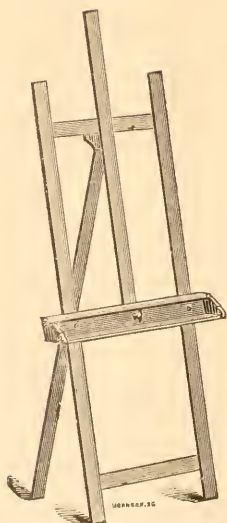
It has a slightly rough surface, even grain, is *very tough*, will bear *erasing* by knife or rubber to an unusual extent, lies flat on the board, and takes ink, color and pencil well. It has neither the spots always found in Manila, *nor will it stretch or become wavy in damp weather*. The tint is somewhat like that of Manila, and calculated not to appear soiled when used and to show well the effect of colors.

In spite of the higher price per pound, it *costs hardly more than Manila by the yard*, as it is very much lighter, owing to the entire absence of all mineral adulterations. It bears the water-mark "DUPLEX" (Trade Mark), which please observe, as DUPLEX PAPERS are warranted, and will give entire satisfaction.

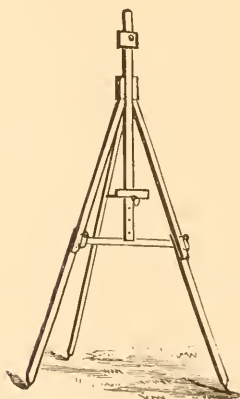
Widths 36 and 56 inches. Price, 25 cents per pound.

EASELS, PALETTES, &C.

Easels.



1.

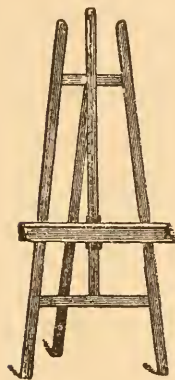


2 (open.)



2 (closed.)

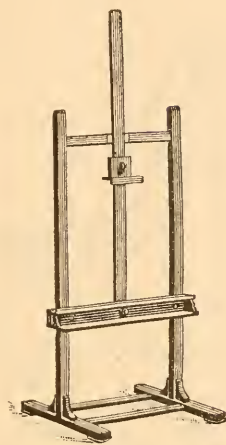
Black Walnut, with shelf for brushes and colors, (see cut No. 1),	\$4.75
Black Walnut Table Easel,	2.75
French Folding Sketching Easel, very light and compact, (see cut No. 2),	2.50
French Folding Sketching Easel, style cut No. 2, in Walnut or Cherry,	3.00
French Folding Sketching Easels, brass mountings,	4.00
Black Walnut Upright Easel, (see cut 5),	6.50
Oak Upright Easel, with sliding shelf and adjustments for inclining, size 26 x 71 inches,	25.00
Oak Upright Easel, with sliding shelf and adjustments for inclining, size 24 x 66 inches,	22.00
Oak Upright Easel, with sliding shelf, size 20 x 56 inches,	12.00
Utility Easel, in pine, with adjustments for inclining, sliding, and extension shelf for canvas; much lighter, and possessing most of the advantages of higher priced Studio Easels; size 22 x 60 inches,	6.00



3.

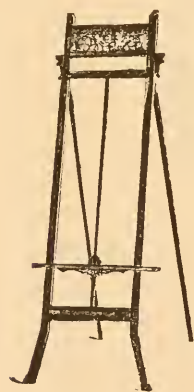


4.

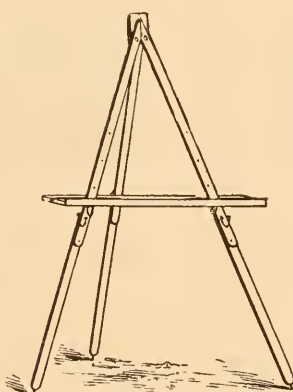


5.

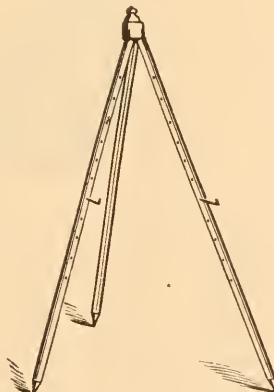
Pine Rack Easel, (style cut No. 3),	. . . . .	\$2.25
Black Walnut Oiled Rack Easel, (style cut No. 3),	. . . . .	4.00
Pine Easel, 3 pieces to fold, (style cut No. 4),	. . . . .	1.35
Oak Easel, 3 pieces to fold, (style cut No. 4.),	. . . . .	2.00
Black Walnut Easel, 3 pieces to fold, (style cut No. 4),	. . . . .	2.00



6.



7.



8.

Plain Sketching Easel, hard wood and jointed legs, size folded 2 x 2 x 26 inches long, (style cut No. 7 but without shelf),	. . . . .	1.10
Plain Sketching Easel, size of above with shelf, (see cut No. 7),	. . . . .	1.25
Oak, 3 piece, Sketching Easel, very strong, size closed, 2 x 55 inches, (see cut No. 8.)	. . . . .	3.00
Parlor Easel in either Ebony or Cherry, 17 x 72 inches, with bronze panel at top, (see cut No. 6),	. . . . .	4.00



Open.

Sketching Seat and Easel Combined.

This Easel, when closed, occupies a space
27 x 14 inches; weight 6½ pounds;
made of hard wood \$4.00

Palettes, Oval or Square.



	Oiled Mahogany.	Polished Mahogany.	Oiled Walnut.	Polished Walnut.	Polished B. Eye Maple.
9 inch,	.30	.60	.30	.60	.65
10 "	.35	.70	.35	.70	.75
11 "	.38	.80	.38	.80	.85
12 "	.40	.90	.40	.90	.95
13 "	.40	1.00	.40	1.00	1.05
14 "	.45	1.10	.45	1.10	1.15
15 "	.50	1.20	.50	1.20	1.20
18 "	.90	1.40	1.00	1.40	1.50

The above Palettes are made especially for us, and we invite the attention of customers to their finish, and its great superiority over all others in the market.

In addition to above we also keep in stock various kinds of Fancy Wood Palettes, or are prepared to make them to order, at short notice, of any wood customers may prefer.

Mahl Sticks.

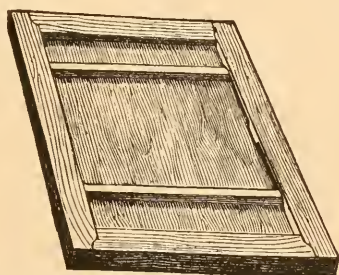
White Wood, 30 to 40 inches long	.	.	.	.	.	.	.	.20
Stained and Varnished, 30 to 40 inches long	.	.	.	.	.	.	.	.30
“ “ 4 Jointed, and Brass Ferules	.	.	.	.	.	.	.	.65
White Wood, 4 “ “	.	.	.	.	.	.	.	.50
Bamboo, . . . . .	.	.	.	.	.	.	.	.30

Drawing Boards.

Plain Drawing Boards.

Double Elephant, 27 x 40 inches	.	\$2.00	Half Imperial, 16 x 22 inches	.	.90
Imperial, 22 x 30 “	.	1.25	4to Imperial, 11 x 16 “	.	.60
Royal, 18 x 24 “	.	1.00			

Panel Drawing Boards.



The cut shows back of Board, and cross-bars by which panel (over which the paper is stretched) is held in position.

4to Imperial, 11 x 16 inches	.	\$1.50	Imperial, 22 x 30 inches	.	\$2.25
Half “ 16 x 22 “	.	1.75			

The above boards are made of thoroughly seasoned stock; frames of hard wood, and panels of pine.

Manikins, or Lay Figures.

6 inch, Hard Wood	.	.	\$1.50	18 inch, Pine Wood	.	.	\$4.00
9 “ “	.	.	2.00	24 “ “	.	.	6.00
12 “ Pine Wood	.	.	2.00				

Sketching Seats and Umbrellas.

French Umbrella, with staff in 3 parts and 2 joints, 28 inches,	.	.	.	\$6.50
" " " " 30 inches,	.	.	.	7.50
" " " " 36 "	.	.	.	12.00
American " plain staff, 1 joint, 31 inches, (see cut),	.	.	.	5.50
" " " " 33 "	.	.	.	6.50
" " " " 37 "	.	.	.	7.50
Staff for holding common Umbrella,	.	.	.	1.25
Staff, jointed, for holding common Umbrella,	.	.	.	2.00



Club Seat, 1st quality	.	.	\$2.00	Cane Seat	.	.	\$2.00
" 2d "	.	.	1.75	Club Seat, American	.	.	.75

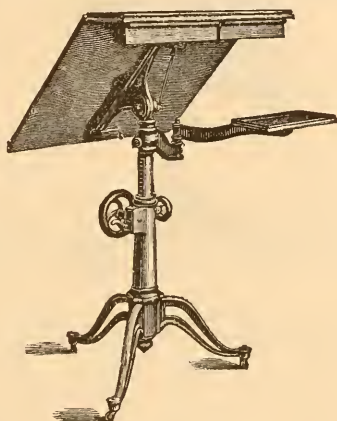
American Sketching Seats at low prices.

Empty Slide Cover Boxes.

Polished Mahogany.

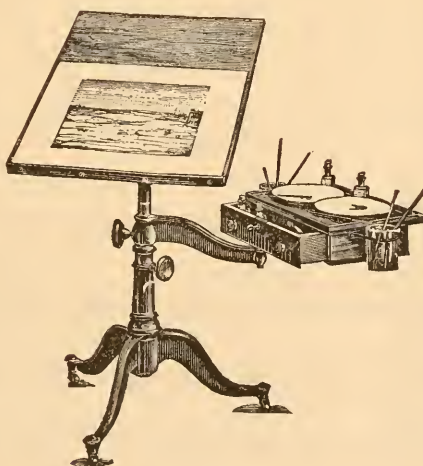
Empty Box, for 6 Half Cakes	.	.25	Empty Box, for 18 Half Cakes	.	.45
" 12 "	.	.35	" " " 24 " "	.	.60

Improved Adjustable Drawing Tables.



No. 976 A. F.

No. 976 A. F. Artists' Drawing Table, ash or oak top, 22 x 26 inches,
folding arm, with plain shelf and top shelf with two drawers, . . . 17.00



No. 974.

No. 974. Academy Drawing Table, ash or oak top, 21 x 26 inches, folding
arm, with large shelf, drawer and two holders for water glasses;
specially adapted for water-color painting, 13.50



No. 971 B. C. E.

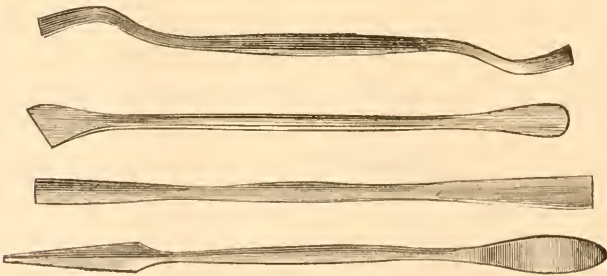
No. 971 B. C. E. 22 x 26 Academy Drawing Table, ash or oak top, folding arm, with shelf and drawer, detachable foot-rest and top shelf, . 15.50

Accessories to Drawing Tables

Will be furnished when specially ordered.

A.	Folding Arm with plain shelf,	1.50
B.	Folding Arm with shelf and drawer,	2.50
C.	Detachable Iron Foot-rest,	2.00
D.	Extension Rack, for holding studies, etc., to be attached back of table top, extending above,	1.00
E.	Top Shelf without drawers,	2.00

SCULPTORS' MODELLING TOOLS.



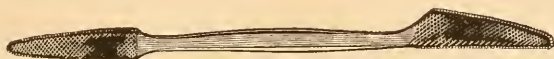
STEEL.

Steel, for Clay or Plaster.		
6 inches long . . . . .		.30
8 " . . . . .		.38
10 " . . . . .		.50



WIRE.

Wire, for Clay or Plaster (in various patterns and sizes).

[illegible]

1.

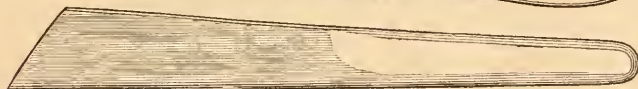
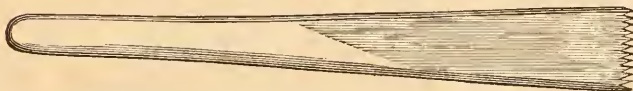


2.

RASPS AND SPURS.

Rasps and Spurs for Plaster.

Rasps (see cut No. 1)	5 to 12 inches long	.50 to \$1.25
Spurs (" " 2)	6 to 12 "	.60 to 1.20



BOXWOOD MODELLING TOOLS.

Boxwood, for Wax or Clay.

4 to 6 inches long	. . . . .	.10 to .20
8 inches	. . . . .	.25
10 " "	. . . . .	.30

We have many other styles of modelling tools, not shown in the preceding illustrations, which want of space compels us to omit, but which we should be pleased to have customers examine for themselves.

Etchers' Materials.

Tracing Points . . . . .	.27
Etching Points, double . . . . .	.30
Scrapers, plain . . . . .	.40
Scrapers, concave . . . . .	.60
Scrapers, concave, in handles	1.75
Burnishers, oval . . . . .	.50
Burnishers, oval, broad	1.25
Burnishers, oval, large, polished handles	1.75
Hand Vises, with wooden handles	1.25
Arkansas Oil Stones each	.25
Emery Paper, Nos. 000 to 4 per sheet	.05
Nitric Acid . . . . .	.50
Chloroform . . . . .	.50
Etching Ground per ball	.50
Liquid Ground per bottle	.25
Stopping Out Varnish "	.25
Wax for Walling per roll	.25
Dabbers for Ground Laying each	.40
Rubber Rollers "	1.75
Gelatine Paper, white . . . . .	.35
Printing Ink (in ½ lb. Cans) per can	1.00

Copper Plates.

Size 2 $\frac{3}{8}$ x 3 $\frac{1}{4}$ inches each	.15
" 2 $\frac{3}{4}$ x 4 $\frac{1}{4}$ " "	.25
" 3 x 4 " "	.25
" 3 x 4 $\frac{1}{2}$ " "	.30
" 3 $\frac{1}{4}$ x 5 " "	.35
" 3 $\frac{3}{4}$ x 5 $\frac{1}{4}$ " "	.40
" 4 $\frac{1}{8}$ x 5 $\frac{1}{4}$ " "	.45
" 4 x 6 " "	.60
" 5 x 8 " "	1.00
" 6 x 8 " "	1.20
" 8 $\frac{1}{2}$ x 14 " "	4.76
" 9 x 16 " "	5.76

Etching Paper.

Holland Plate Paper, Demy, per sheet	.08
" " " Medium, "	.10
" " " Royal, "	.12
H. & W. Plate Paper, 20 x 24, "	.10
India Paper, extra fine, "	.10

OILS, VARNISHES, &c.

Oils.

2 Oz. Glass Bottles.

[illegible]

For Oils for China Painting, see page 21.

Varnishes and Siccative.

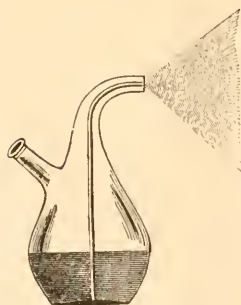


Genuine Mastic Varnish, 2 oz. Bottles . . . . .	.50
Picture Mastic Varnish, " . . . . .	.35
Picture Copal Varnish, " . . . . .	.25
Picture Varnish, " . . . . .	.25
Retouching Varnish, " . . . . .	.25
French Picture Varnish, (Duroziez), Superfine Quality (2 oz. Bottles), .	1.00

French Retouching Varnish, 1 oz., Square Bottles,	. . . . .	.30
French Water Color Varnish, 1 oz., " "	. . . . .	.30
Spirit Amber Varnish (for Violins, 1 oz.),	. . . . .	.25
Oil Amber Varnish (for Violins, 2 oz.),	. . . . .	.50
White Lac Varnish	. . . . .	.20
White Damar Varnish	. . . . .	.20
Roberson's Medium	. . . . .	.40
Siccatif de Harlem	. . . . .	.50
Siccatif de Courtrai	. . . . .	.25
W. & N.'s Strong Mastic Varnish, 2 oz. Bottles	. . . . .	.90
" Picture Mastic Varnish,	. . . . .	.75
" Picture Copal Varnish,	. . . . .	.40
" Crystal Varnish,	. . . . .	.35
" White Spirit Varnish,	. . . . .	.40
" Brown Spirit Varnish,	. . . . .	.40

Wadsworth, Howland & Co.'s Fixatif.

Half-Pint Bottles	. . . . .	.35	Quart Bottles	. . . . .	\$1.15
Pint Bottles	. . . . .	.65	2 oz. " "	. . . . .	.20



Fixatif Rouget.

Box containing Apparatus, Liquids, etc.	. . . . .	\$2.20
Small Bottle Fixatif	. . . . .	.38
Large Bottle Fixatif	. . . . .	.60
Blowing Apparatus, separate	. . . . .	1.45
Liquid, special	. . . . .	.20

Atomizers.

For Applying Fixatif.

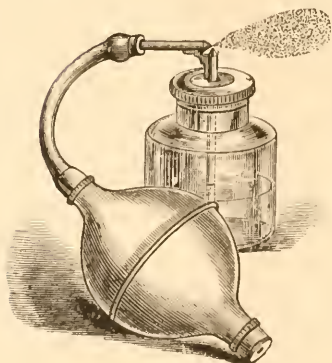


Fig. 1.



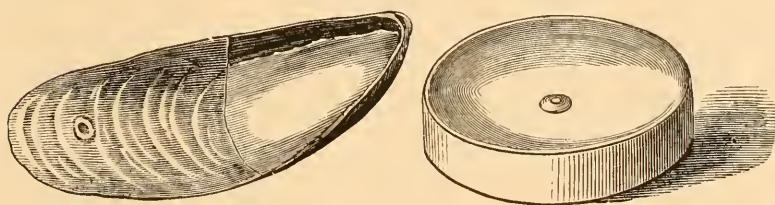
Fig. 2.



Fig. 3.

Small Glass	.25
Ocean Vapor (nickel-plated, see Fig. 2, preceding page)	.40
Tin (for throwing heavy spray, see cut of Fixateur, page 104)	.50
Favorite	.55
Essex Improved A (nickel-plated, Fig. 1, preceding page)	1.25
Pocket Folding (to insert in ordinary bottle, see Fig. 3, preceding page)	.25

METALLIC PREPARATIONS, &C.



Gold and Silver Shells and Saucers.

Gold Shells	.20	Silver Shells	.10
Gold Saucers, 1 inch	.25	Silver Saucers, 1 inch	.15
" 1 1/4 "	.30	" 1 1/4 "	.20
" 1 1/2 "	.35	" 1 1/2 "	.25
" 2 "	.50		

Gold Paint.

Bessemer's Small Bottle Paint, with Liquid	.45
" Large Bottle Paint, without Liquid	.60
" Large Bottle Liquid	.20

W. H. & Co.'s Gold, Silver and Antique Green Paint.

Put up in Boxes Containing 1 Bottle Paint and 1 Bottle Mixing Liquid.

Per dozen boxes	\$5.00	Each	.50
" " " small size	2.50	" small size	.25

Wadsworth, Howland & Co.'s Gold Striping.

A finer and more brilliant Gold Paint than any in the market, and manufactured for us only. The only article we have ever seen that will retain its brightness under varnish.

No. 1. Bottle Paint, with Mixing Liquid	\$1.00
2. " "	2.00
3. " "	3.00
3 oz. Bottle Mixing Liquid, separate	.20

Materials for Silk, Plush and Lustra Painting.

We would call attention of customers to a complete assortment of Supplies suitable for these now popular branches of Ornamental Painting. In Bronzes and Flitters we carry by far the largest and best line of goods of any house in New England, being agents for the manufacturers of these articles. For Colors, without lustre, the Tube Paints (mentioned elsewhere in our Artists' Catalogue), thinned with our Silk Mixtion, are used. For Irridescent Lustra Painting the following are most generally called for:

Bronzes.

In the following shades :

Light Brown, Dark Brown,	per ounce, \$.25
Carmine, Copper, Blue, Flesh, Fire, Green Gold, Antique Green,	
Lemon, Maroon, Orange, Pale Gold, Purple, Rich Gold, Red,	
Steel, Silver and Violet,	" .20
Patent Emerald, Patent Dark Green, Patent Violet, Patent	
Dark Blue, Patent Light Blue,	" .60

Brocades.

Made from same material as Bronzes, but in small flakes instead of powder, and very brilliant. Shades as follows :

Blue, Chrome Green, Crimson, Fire, Green Gold, Lemon, Orange,	
Pale Gold, Rich Gold, Silver, and Mixed,	per ounce, \$.15

Flitters.

Made from Foil Paper, in small flakes, but more brilliant than Brocades. We have them in

Blue, Copper, Dark Green, Green, Orange, Purple, and Red	per ounce, \$.35
Assorted Colors, mixed,	" .30
Gold,	" .20
Silver,	" .20

Mixing Liquid for Bronze.

In two ounce bottles,	\$.15
In three ounce bottles,	.20
In six ounce bottles,	.30
In eight ounce bottles,	.40
In sixteen ounce bottles,	.60

Mixtion.

For Work on Velvet, Plush and Silk,	per bottle, \$.20
-------------------------------------	--------------------

Amber Enamel for Pottery.

In bottles, large size,	\$.50
" small size,	.25

Book of Instruction.

For Kensington and Lustra Painting,	\$.25
-------------------------------------	--------

Gold and Silver Inks.

W. & N's Chinese Gold Ink	.	.	.	.	.	.	.	per bottle	.35
W & N's Silver Ink	.	.	.	.	.	.	.	"	.35

Bronze Powders.

Of all Desirable Shades, including Green and White.

We have the following shades: Rich Gold, Deep Gold, Pale Gold, Green Gold, Red Gold, Green, Fire, Crimson, Copper, Carmine, Light and Dark Blue, Orange, Lemon, Flesh, Maroon, White or Silver, Nickel, Peacock Blue, Cream, Turtle, Lilac.

Gold Bronze, rich shade, we have in all numbers; colored Bronzes in Nos. 1000 and 6000 only.

No. 6000	.	.	.	per oz.	.20	No. 2000	.	.	.	per oz.	.12
5000	.	.	.	"	.18	1000	.	.	.	"	.10
4000	.	.	.	"	.16	10000	.	.	.	"	.25
3000	.	.	.	"	.14						

Extra Brilliant	.	.	.	.	.	.	.	per oz.	.30
French Gold Leaf (light and deep)	.	.	.	.	.	.	.	"	.40

As agents of the American Bronze-Powder Manufacturing Company we have the largest stock of Bronze Powders in New England, and can match any sample that may be desired.

Brocades and Flitters.

Brocades are made of same materials as Bronze Powders, but are in small flakes and very brilliant. We have them in Rich, Pale and Green Gold, Lemon, Fire, Crimson, Dark Blue, Dark Green, and Mixed.

Per pound,	\$1.50	Per ounce,15
------------	---	---	---	---	--------	------------	---	---	---	---	-----

Flitters are obtained by cutting foil papers into small flakes, and like Brocades, are very brilliant and effective in decorations.

Gold and Copper Flitters,	.	.	.	.	per pound, 2.00;	per ounce,	.20
Silver,	.	.	.	.	" 2.00;	"	.20
Assorted Colors, mixed,	.	.	.	.	" 3.00;	"	.30
Red, Green, Blue, Purple and Orange,	.	.	.	.	" 3.50;	"	.35

Pure Gold Leaf.

Extra deep	.	.	.	.	.	.	per pack \$7.00;	per book	.37
Lemon	.	.	.	.	.	.	" 6.50;	"	.35
Pale	.	.	.	.	.	.	" 6.00;	"	.33

Pure Silver Leaf.

Per Pack	\$1.75	Per Book15
----------	---	---	---	---	--------	----------	---	---	---	-----

Imitation Gold Leaf.

Usual size, extra deep	.	.	.	.	.	per pack \$1.00;	per book	.10
Extra size, extra deep	.	.	.	.	.	" 1.25;	"	.12

Florence, or Dutch Metal Leaf.

White, one Blue Star,	per pack \$1.50; per book	.20
Yellow, one Red Star,	" 1.75; "	.23
Yellow, No. 2, Blue Elephant, small size, ext. quality,	" 2.00; "	.25
Yellow, No. 3, Blue Elephant, medium size, ext. quality,	" 2.50; "	.30
Yellow, one Blue Star, large,	" 2.75; "	.33
Yellow, two Blue Stars, extra large,	" 3.50; "	.40
Red Japanese, large size, extra quality,	" 3.00; "	.35
Copper, large size, extra quality,	" 2.75; "	.33

Variegated Metal Leaf.

Price, per pack, \$1.50; per book, .15

This leaf is very fashionable now, and by its use very rich effects can be produced. Do not varnish it.

Nickel Leaf.

Per pack \$2.25 | Per book17

This leaf will not tarnish when exposed to the weather, and is growing in favor with those who like a white leaf.

Copper Foil or Tinsel.

White per doz.	.60	Red per doz.	.80
Green "	.80	Yellow "	.80
Blue "	.80		

Colored Foil or Metallic Papers.

Genuine Silver, 18 x 22	per doz.	\$2.50; sheet	.25
Extra Gold "	"	2.50; "	.25
Assorted Colors, "	"	3.50; "	.35
Second Quality Gold Foil	"	1.25; "	.15
Second Quality Silver Foil	"	1.25; "	.15

Gilt and Silver Paper.

Gilt Paper, 16 x 19	per doz.	.75; sheet	10
Silver Paper, 16 x 19	"	.75; "	10

Tin Foil.

Thick per lb.	.25	Thin per lb.	.35
Medium "	.30	Tissue "	.50

Oil Gold Size.

Used in Applying Leafs.

Quadruple Tubes . . . . .	.32
Double Tubes . . . . .	.16

For Gilders' Tips and Dusters, see BRUSHES.

For Gilders' Knives, see METAL WARE.

Pearls, Frostings and Flocks.

For Ornamenting.

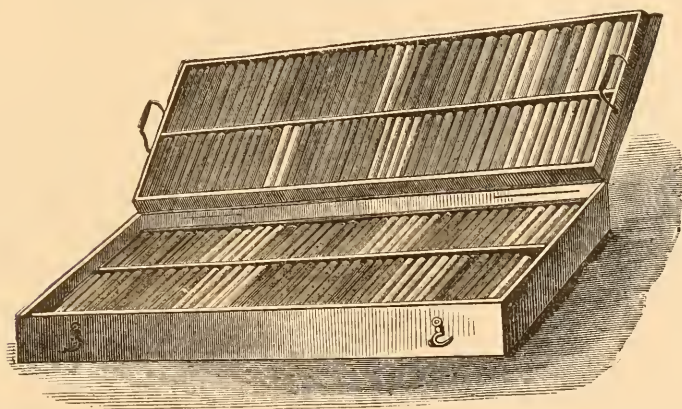
Pearl.

Aurora (large piece of Mother of Pearl),	per oz.	.50
Crushed (fine Mother of Pearl),	"	.10
Scrap (small pieces or trimming of Mother of Pearl),	"	.30
Snail,	"	.60

Frostings and Flocks.

Blue Frosting,	per oz.	.12	Black Flock,	per oz.	.10
Canary "	"	.12	Blue "	"	.12
Green "	"	.12	Crimson "	"	.12
Mica "	"	.10	Green "	"	.12
Purple "	"	.12	Maroon "	"	.12
White "	"	.10	White "	"	.10
Diamond Dust,	"	.12			

PASTELS, CRAYONS, &C.



Soft Pastels.

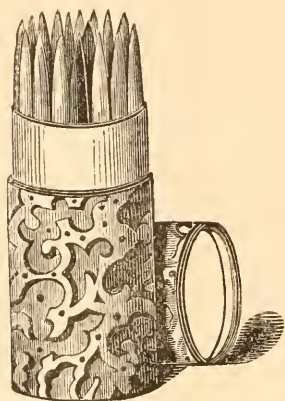
No. 1, Lefranc's First Quality, Box containing 26 Crayons, . . . . .		.80
2, " " " " 42 "		1.10
3, " " " " 58 "		2.00
4, " " " " 64 "		2.70
5, " " " " 129 "		4.50
6, " " " " 156 "		5.50

Boxes of 26 Pastels each, containing an assortment of either Gray, Blue, Brown, Green, Yellow, &c., per box 1.50

Photographic Crayons.

New and easy process of coloring photographs with colored crayons, on albuminized surface.

Boxes containing 24 Crayons and stump, \$4.00
Directions for use accompany each box.



Hard French Pastel Crayons.

First Quality.

Round Box, containing 12 Sticks	.	.	.30
" " 18 "	.	.	.40
" " 24 "	.	.	.50
" " 36 "	.	.	.80
" " 48 "	.	.	1.10

Second Quality.

Round Box, containing 6 sticks,	.	.	.10
" " 12 "	.	.	.18

Designer's Card, containing Crayons, Mouth Glue, and Porte Crayon	.	.	.25
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Conte Crayons, &c.

Square Black Conte Crayons, Nos. 1, 2, 3	.	.	.	per doz.	.18
Square Red and White Conte Crayons	.	.	.	"	.18
Round Black Varnished Crayons	.	.	.	"	.38
Conte Crayons in Cedar (or Crayon Pencils), Nos. 1, 2, 3	.	.	.	each	.08 and .10
White Chalk Crayons for Blackboards	.	.	.	per doz.	.08
School Crayons, Assorted Colors	.	.	.	per gross	1.00
Royal Academy Crayons, in Box, containing 12 Sticks, assorted	.	.	.	per box	.25
Lithographic Crayons, Nos. 1 and 2, in Box, containing 12 Sticks	.	.	.	"	.35
Black Italian Chalk	.	.	.	per oz.	.30
Solid Black Ink Pencil, in Cedar	.	.	.	per doz.	1.00
Black Chalk Pencils, Nos. 1, 2, 3, 4, 5	.	.	.	"	.60

Charcoal.

Venetian, Box containing 50 Sticks	.	.	.	.	.	.55
Berville Pour le Trait, Box containing 50 Sticks	.	.	.	.	.	.45
Choice Conte, " 50 "	.	.	.	.	.	.45
Choice Berville, small " 50 " Soft and Black	.	.	.	.	.	.50
" large, " 30 " " extra Black	.	.	.	.	.	.45
" " 50 " Assorted, 4 grades	.	.	.	.	.	.55
Choice Rouget, " 25 " " 3 "	.	.	.	.	.	.40
Ordinary, small, " 50 "	.	.	.	.	.	.25
" large, " 50 "	.	.	.	.	.	.40
Stumping Sauce	.	.	.	.	per doz.	.50
" Perfection	.	.	.	.	per bottle	.10

For Liquid Preparations for fixing Charcoal, see page 62.

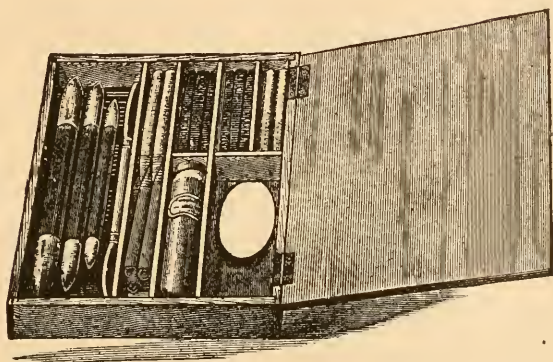
Charcoal Sketching Boxes.

Fitted complete for Charcoal Drawing, with Charcoal Stumps, Tin Bottles, for Fixatif, Porte Crayons, Sketching Board, etc., from \$4.50 to \$10.50

For Studies for Charcoal, see FINE ART PUBLICATIONS.

Winsor & Newton's New Palette Chalk Box.

For Students, Schools of Art, &c., &c.



The lid of this box is covered inside with chamois leather for stumping, and the thumb-hole is so arranged as to allow of the box being held on the hand as comfortably as a palette.

The box contains :

Four each Nos. 1, 2, and 3 Square Black Conté Crayons. Two each Nos. 1 and 2 Lemoine's Round White Crayons. One Bottle Stumping Chalk (Sauce Velours). One each Nos. 4 and 6 White Paper Stumps. One No. 2 White Leather Stump. Four White Tortillon Stumps. Four Grey Tortillon Stumps. One Brass Port-crayon.

WEIGHT, fitted complete, under eight ounces ; or about the same as an ordinary 12-inch Mahogany Palette.

Price, \$1.25, fitted complete.

"Our Country" Lead Pencils.

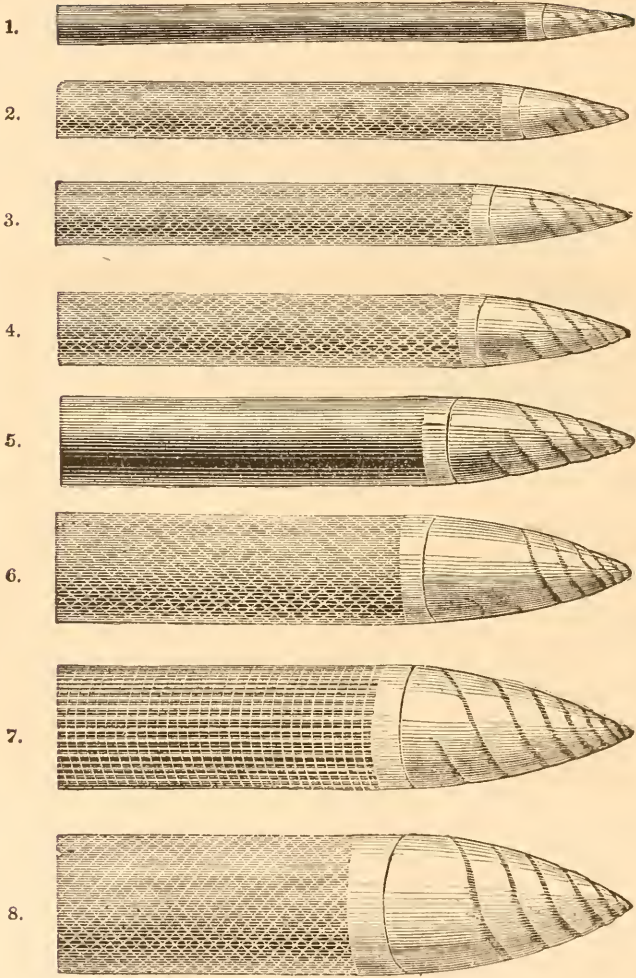
These are especially adapted for school use, where a fair quality of pencil, at a moderate price, is desired. They are covered with foil paper representing the colors of the American flag, and are of bright and attractive appearance.

Per dozen, 40 cents.

For Stationers, desiring them in large quantities, they will be packed in boxes (containing half a gross each), on the inner cover of which is a representation in colors of the American flag. The pencils when thus arranged are highly desirable for displaying in store windows or show cases.

Special terms made for gross lots.

Stumps.



Chamois, Extra Quality, sizes 1 to 12,	10 to .35
Chamois, Ordinary, sizes 1 to 12, . . . . .	.08 to .30
Kid, 8 sizes, 1 to 8 . . . . .	.08 to .13
Cork, 8 " . . . . .	.08 to .15
Paper, 8 " Gray, . . . . .	.05 to .08
Paper, 8 " Variegated, . . . . .	.06 to .12
Paper, Small, Gray, 1 doz. in package,	per package, .12
Paper, Small, White, Red, Salmon, . . . . .	.15
Amadou, or soft Chamois in roll form, . . . . .	.25



Artists' Tubular Pencils.

Wood Hexagon, medium, 5 inches long	.	.	.	.	.	.20
“ “ small, 3½ “	.	.	.	.	.	.15
Ivory Round, thin, 3 “	.	.	.	.	.	.35
“ “ “ 3¼ “	.	.	.	.	.	.45
“ “ slide, 3½ “	.	.	.	.	.	.65
“ “ “ 4 “	.	.	.	.	.	.80
A. W. Faber's Siberian Leads for Tubular Pencils	.	.	.	.	per box	.60
					“	

Faber's Pencils.

A. W. Faber's Black Round Gilt, Nos. 1, 2, 3, 4	.	.	.	.	per doz.	.55
“ “ Extra Siberian, 10 grades, from 3 B to 6 H,	.	.	.	.	“	1.00
Faber's Mathematical Pencils, for dividers, Hexagon Gilt,	.	.	.	.	“	.70
“ “ “ “ Round Gilt	.	.	.	.	“	.50
“ “ English Yellow Silver, 10 grades, from 3 B to 4 H,	.	.	.	.	“	.55
“ “ Carpenters' Pencils, 7 inches long, Black Polished	.	.	.	.	each	.10

Colored Pencils.

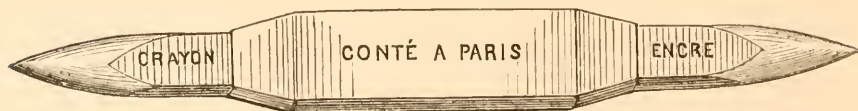
6 Assorted Colors, in Box, 7 inches long (Faber's)	.	.	.	.	.	.75
12 “ “ 7 “ “	.	.	.	.	.	1.20
18 “ “ 7 “ “	.	.	.	.	.	1.75
24 “ “ 7 “ “	.	.	.	.	.	2.25
6 “ “ 7 “ (American)	.	.	.	.	.	.60
12 “ “ 7 “ “	.	.	.	.	.	1.10
6 “ “ 3½ “ “	.	.	.	.	.	.25
12 “ “ 3½ “ “	.	.	.	.	.	.40
White, Blue, Green, Yellow, Red, etc. (Faber's)	.	.	.	.	each	.10
Eagle Hexagon, Double End, Red and Blue	.	.	.	.	.	.12

French Nigrivorines.



All Rubber, small	.	.	.	.	.	.	.	.	.06
“ “ medium	.	.	.	.	.	.	.	.	.08
“ “ large	.	.	.	.	.	.	.	.	.10

Batonnets.



Ink and Crayon Eraser, Conte a Paris, large	.	.	.	.	.	.	.20
“ “ “ medium	.	.	.	.	.	.	.15
“ “ “ small	.	.	.	.	.	.	.10

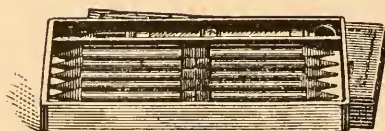
L. & C. Hardtmuth's Pencils.

From the Celebrated Manufactory at Vienna. (Founded in 1790).

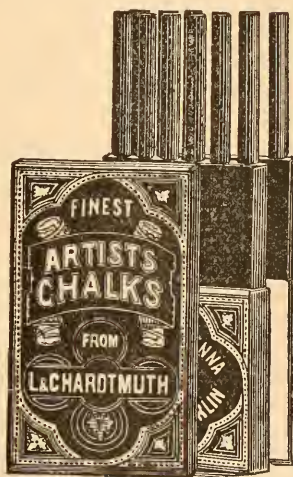
Polygrade Drawing Pencils, 12 degrees, 6 H to 6 B,	per doz.	.50
Best Russian Graphite Drawing Pencils, Hexagon, 6 degrees, Nos. 1 to 6, "		.80
Very best and finest Graphite Comprimé Drawing Pencils, 12 degrees, 3 B to 6 H.	per doz.	1.00
Very best and finest Graphite Comprimé Drawing Pencils, " 4 B, "		1.12
" " " " " " 6 B, "		1.25
Black Chalk Pencils,	per doz.	.60
Account Book Pencils, (in Plain Cedar),	"	.50



Very best and finest Comprimé Drawing Pencils, 5 in leather box with Knife and Rubber, per box 1.50



No. 1.



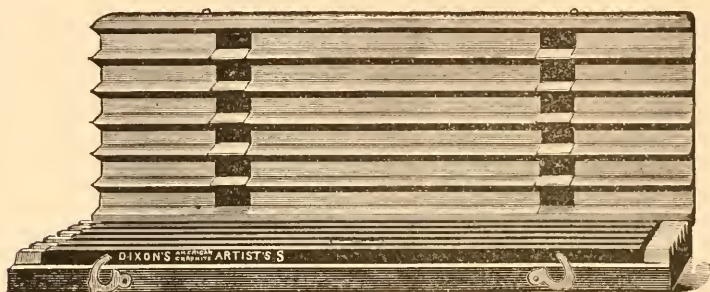
No. 2.

Pocket and Colored Pencils.

Pocket Pencil, in sliding Case, with 12 extra points, see cut No. 1,	per box	.75
12 Assorted Colors, in folding Box, see cut No. 2,	"	1.20
24 " " " " style of cut No. 2,	"	2.25
Colored Pencils, Assorted Colors,	per doz.	.75

Cases of Drawing Pencils.

Dixon's American Graphite Artists' Pencils, in Real Aromatic Cedar Cases, Highly Polished, New and Beautiful, Assorted Grades of Leads, Complete for Art Work, Suitable for Presents.



ARTISTS' HEXAGON—CEDAR BOX.

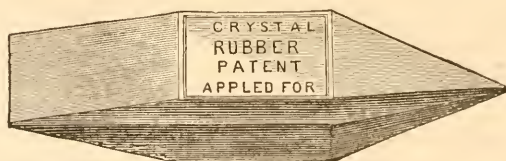
Artists' Hexagon, 4 in a polished cedar box . . . . .	.80
“ 6 “ “	1.00
“ 8 “ “	1.45
“ 4 in a paper box . . . . .	.50
“ 6 “ “ . . . . .	.65
“ 8 “ “ . . . . .	.80

Dixon's American Graphite Artists' Pencils.

Ten grades, from W. H. to W. S., to correspond to the Imported Pencils.

Per dozen80 | Each08

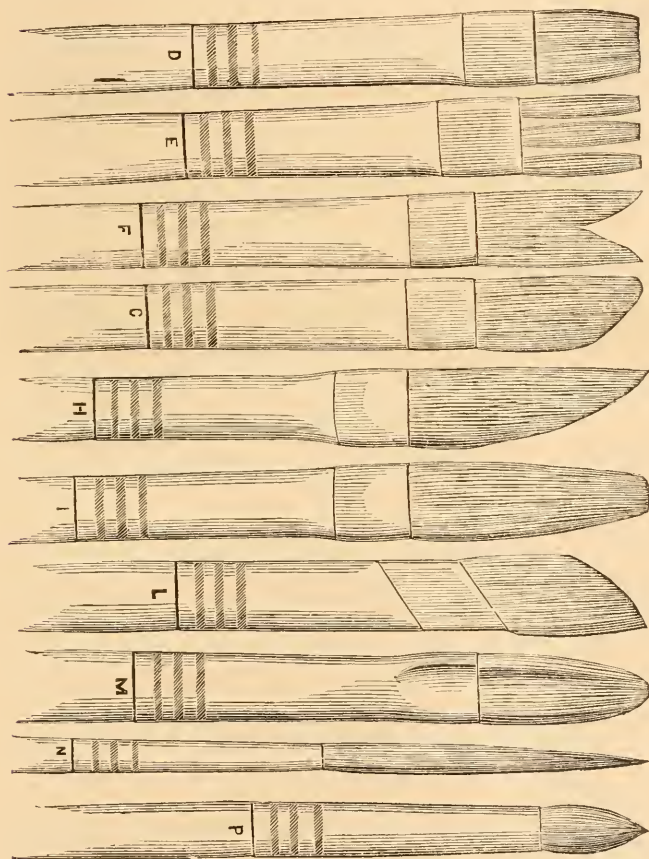
Rubber, &c.



No. 1.

Davidson's Velvet Rubber . . . . .	.05 to .50
Faber's Ink and Pencil Eraser, small size . . . . .	.15
“ “ “ mammoth size . . . . .	.20
“ Ink Eraser . . . . .	.06
“ Black Gum . . . . .	.08 to .50
“ White Rubber, best in the market . . . . .	.05 to .50
“ Pencil Rubber . . . . .	.12
Webster's Chalk Eraser . . . . .	.20
Sponge Rubber . . . . .	.10 to 1.70
Natural Rubber . . . . .	.20 to .40
Crystal Rubber, small . . . . .	.05
“ “ large (like No. 1) . . . . .	.10

BRUSHES.



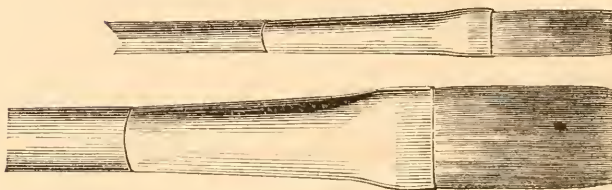
Winsor & Newton's Special Extra Fine Hog Hair Brushes, in Tin.

Made of the finest and softest Lyons Hog Hair, feather-edged, and graduated so that the hair may blend and keep well together in working. These Brushes may be said to range between Sable Hair Brushes and ordinary Hog Hair Brushes—combining somewhat of the softness of the former with the firmness of the latter.

An examination of the preceding cuts will show artists for what use each brush is designed. Thus, *I* is very long and of perfectly straight hair, having a good spring, and enabling square touches to be placed on with accuracy; while *M* has a hollow, which, when full of color, acts as a feeder, and enables the brush to be used for some time without being stopped for a fresh supply.

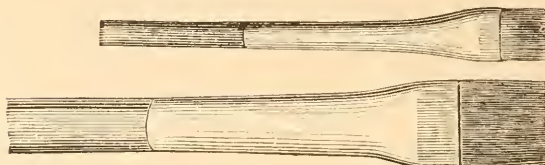
Any of above brushes each .20

Landseer's Bristle Artists' Brushes.



No. 1	.	.	.	.	.	.10	No. 4	.	.	.	.	.	.13
2	.	.	.	.	.	.11	5	.	.	.	.	.	.13
3	.	.	.	.	.	.12	6	.	.	.	.	.	.14

Bright's Bristle Artists' Brushes.



No. 1	.	.	.	.	.	.10	No. 4	.	.	.	.	.	.13
2	.	.	.	.	.	.11	5	.	.	.	.	.	.13
3	.	.	.	.	.	.12	6	.	.	.	.	.	.14

Bristle Fan Brushes, in Tin.

For style of brush see cut Winsor & Newton's Fan Sables.

Nos. 1, 2, 3.	.	.	.	each	.30	Nos. 4, 5, 6.	.	.	.	each	.35
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Winsor & Newton's Round Bristle Brushes, in Tin.

Polished Cedar Handles.

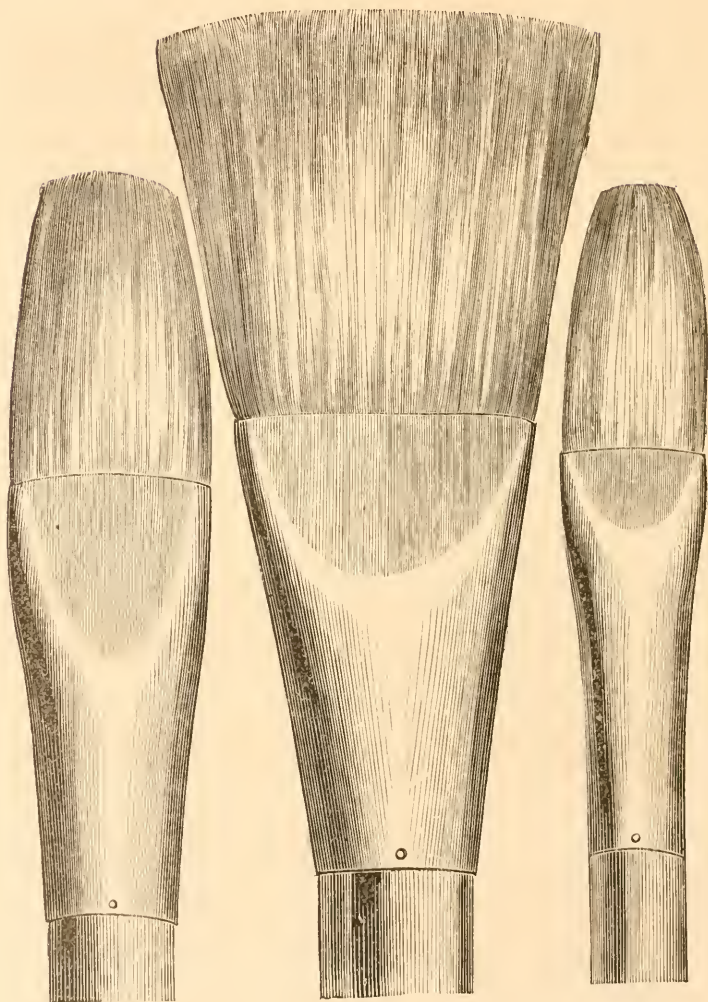
No. 0010	No. 614
0	.	.	.	.	.	.10	7	.	.	.	.	.	.15
1	.	.	.	.	.	.10	8	.	.	.	.	.	.17
2	.	.	.	.	.	.12	9	.	.	.	.	.	.20
3	.	.	.	.	.	.12	10	.	.	.	.	.	.22
4	.	.	.	.	.	.13	11	.	.	.	.	.	.25
5	.	.	.	.	.	.13	12	.	.	.	.	.	.30

Winsor & Newton's Flat Bristle Brushes, in Tin.

Polished Handles.

No. 00	.	.	.	.	.	.10	No. 6	.	.	.	.	.	.14
0	.	.	.	.	.	.10	7	.	.	.	.	.	.15
1	.	.	.	.	.	.10	8	.	.	.	.	.	.17
2	.	.	.	.	.	.12	9	.	.	.	.	.	.20
3	.	.	.	.	.	.12	10	.	.	.	.	.	.22
4	.	.	.	.	.	.13	11	.	.	.	.	.	.25
5	.	.	.	.	.	.13	12	.	.	.	.	.	.30

Extra Large Artists' Bristle Brushes.



$1\frac{1}{2}$ inch	.	.	.	.	.	.10	$1\frac{1}{8}$ inch	.	.	.	.	.	.17
$\frac{5}{8}$ "	.	.	.	.	.	.11	$1\frac{1}{4}$ "	.	.	.	.	.	.20
$\frac{3}{4}$ "	.	.	.	.	.	.12	$1\frac{3}{8}$ "	.	.	.	.	.	.25
$\frac{7}{8}$ "	.	.	.	.	.	.13	$1\frac{1}{2}$ "	.	.	.	.	.	.28
1 "	.	.	.	.	.	.15	$1\frac{3}{4}$ "	.	.	.	.	.	.30

French Bristle Brushes.

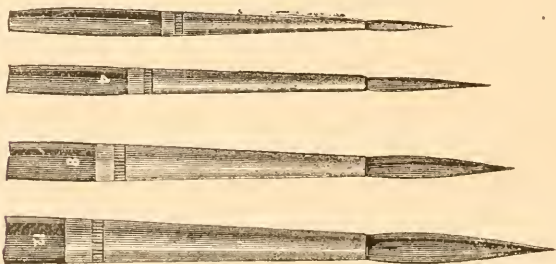
White Handles, Round and Flat.

Nos. 1 to 12	each	.08	No. 17	each	.18
" 1 to 12	per doz.	.75	" 18	"	.20
No. 13	each	.10	" 19	"	.22
" 14	"	.12	" 20	"	.24
" 15	"	.14	" 21	"	.26
" 16	"	.16	" 22	"	.28

The bristles in above are of superior quality, and artists who have used them pronounce them very desirable brushes.

F. W. Devoe & Co.'s Artists' Red Sable Brushes.

Long ("Riggers.") For Fine Lines. Polished Handles. Nickel Plated Ferrules.



No. 1 . . . . .	.10	No. 7 . . . . .	.24
" 2 . . . . .	.12	" 8 . . . . .	.26
" 3 . . . . .	.15	" 9 . . . . .	.28
" 4 . . . . .	.18	" 10 . . . . .	.30
" 5 . . . . .	.20	" 11 . . . . .	.32
" 6 . . . . .	.22	" 12 . . . . .	.34

Artists' Imitation Red Sable Brushes.

Round and Flat. In Yellow Handles.

No. 1, . . . . .	.07	No. 7 . . . . .	.14
" 2, . . . . .	.08	" 8 . . . . .	.16
" 3, . . . . .	.09	" 9 . . . . .	.18
" 4, . . . . .	.10	" 10 . . . . .	.20
" 5, . . . . .	.11	" 11 . . . . .	.22
" 6, . . . . .	.12	" 12 . . . . .	.24

French Artists' Red Sable Brushes, for Oil Colors.

Round and Flat. Polished Handles.



No. 1	.	.	.	.	.	.10	No. 10	.	.	.	.	.	.	.30
2	.	.	.	.	.	.12	11	.	.	.	.	.	.	.32
3	.	.	.	.	.	.15	12	.	.	.	.	.	.	.34
4	.	.	.	.	.	.18	13	.	.	.	.	.	.	.40
5	.	.	.	.	.	.20	14	.	.	.	.	.	.	.45
6	.	.	.	.	.	.22	15	.	.	.	.	.	.	.50
7	.	.	.	.	.	.24	16	.	.	.	.	.	.	.60
8	.	.	.	.	.	.26	18	.	.	.	.	.	.	.70
9	.	.	.	.	.	.28	20	.	.	.	.	.	.	.80

Extra Large French Artists' Sables, for Oil Colors.

$1\frac{1}{2}$ inch, Flat	.	.	.	.	.	.85	$1\frac{1}{4}$ inch, Flat	.	.	.	.	.	\$1.50
$3\frac{3}{4}$ " "	.	.	.	.	.	.95	$1\frac{1}{2}$ " "	.	.	.	.	.	1.75
1	.	.	.	.	.	1.25							

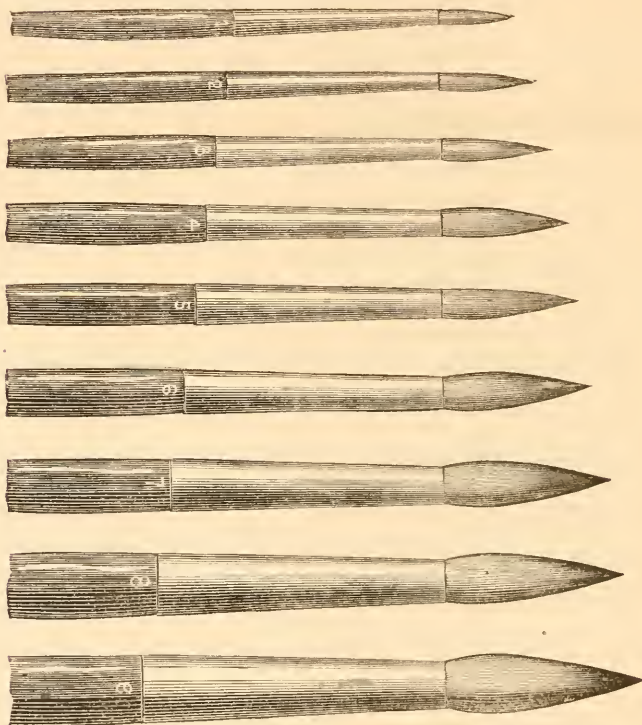
Russian Sable Artists' Brushes, for Oil Painting.

Substitute for Red Sable. Round and Flat. Polished Handles.

No. 1	.	.	.	.	.	.07	No. 7	.	.	.	.	.	.	.13
2	.	.	.	.	.	.08	8	.	.	.	.	.	.	.14
3	.	.	.	.	.	.09	9	.	.	.	.	.	.	.15
4	.	.	.	.	.	.10	10	.	.	.	.	.	.	.17
5	.	.	.	.	.	.11	11	.	.	.	.	.	.	.18
6	.	.	.	.	.	.12	12	.	.	.	.	.	.	.20

Winsor & Newton's Round Red Sables, in Tin.

For Oil Painting, Red Polished Cedar Handles.



No. 00	.	.	.	.	.	.20	No. 5	.	.	.	.	.	.45
0	.	.	.	.	.	.20	6	.	.	.	.	.	.60
1	.	.	.	.	.	.20	7	.	.	.	.	.	.90
2	.	.	.	.	.	.30	8	.	.	.	.	.	1.05
3	.	.	.	.	.	.35	9	.	.	.	.	.	1.20
4	.	.	.	.	.	.40	10	.	.	.	.	.	1.55

Winsor & Newton's Flat Red Sables, in Tin.

For Oil Painting, Red Polished Cedar Handles.

No. 00	.	.	.	.	.	.20	No. 5	.	.	.	.	.	.45
0	.	.	.	.	.	.20	6	.	.	.	.	.	.60
1	.	.	.	.	.	.20	7	.	.	.	.	.	.90
2	.	.	.	.	.	.30	8	.	.	.	.	.	1.05
3	.	.	.	.	.	.35	9	.	.	.	.	.	1.20
4	.	.	.	.	.	.40							

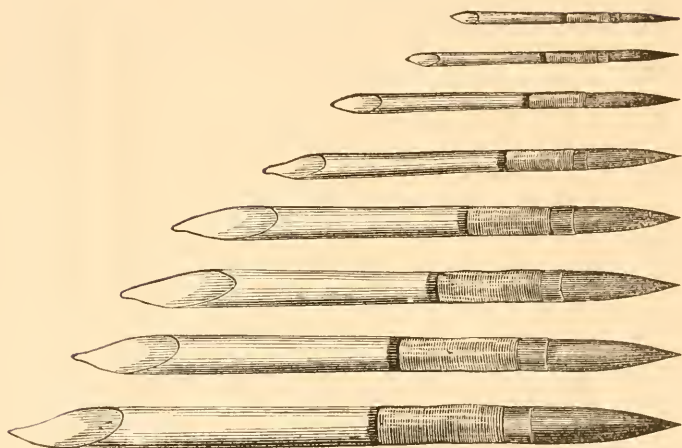
Winsor & Newton's Red Sable Riggers.

Nos. 000 to 6, prices same as W. & N.'s Flat Sables for Oil Paintings.

Water Color Brushes.

Camel's Hair Miniature Pencils.

Sup. Ex. Gold and Silk Bound.



No. 1	.	.	.	.	.	.05	No. 5	.	.	.	.	.	.07
2	.	.	.	.	.	.05	6	.	.	.	.	.	.08
3	.	.	.	.	.	.05	7	.	.	.	.	.	.09
4	.	.	.	.	.	.06	8	.	.	.	.	.	.10

Camel's Hair Pencils in Metal Tubes.

For Heavy Lining or Striping.



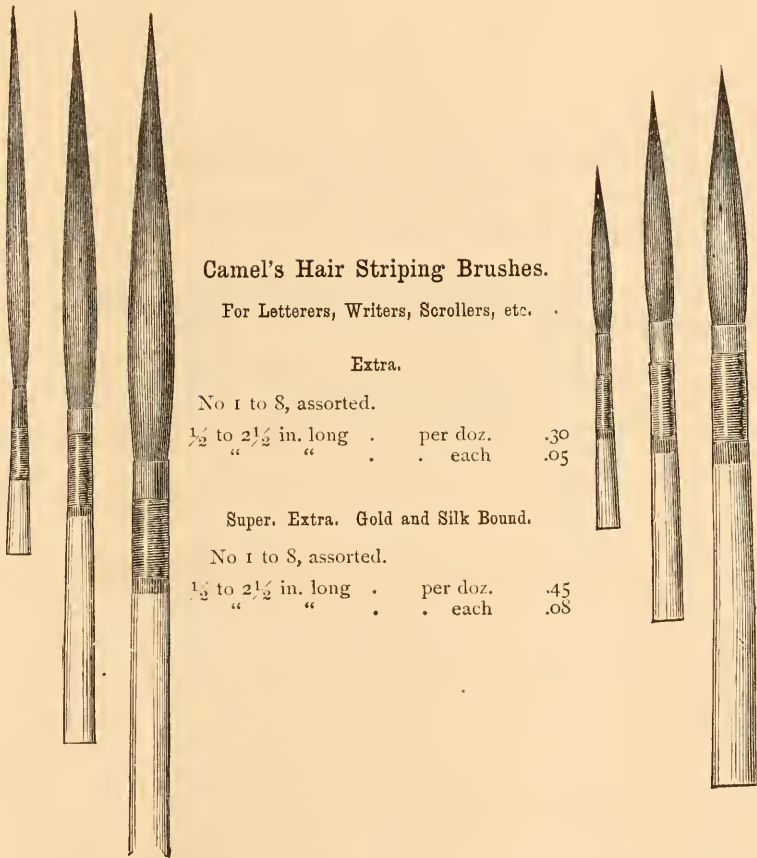
$\frac{1}{2}$ inch to $2\frac{1}{2}$ inches long per doz. \$.88; each .10

Siberian Ox Hair Pencils.

For Striping and Lettering.

Nos. 1 to 8, assorted.

Per dozen90 | Each10



Camel's Hair Striping Brushes.

For Letterers, Writers, Scrollers, etc. .

Extra.

No 1 to 8, assorted.

$\frac{1}{2}$ to $2\frac{1}{2}$ in. long .	per doz.	.30
" " " " .	each	.05

Super. Extra. Gold and Silk Bound.

No 1 to 8, assorted.

$\frac{1}{2}$ to $2\frac{1}{2}$ in. long .	per doz.	.45
" " " " .	each	.08

French Red Sable Miniature Pencils.

Nos. 1 to 8 each .10 to .40

Sizes corresponding to Camel's Hair Miniature Pencils, see cut, page 65.

Red Sable Lettering and Striping Pencils.

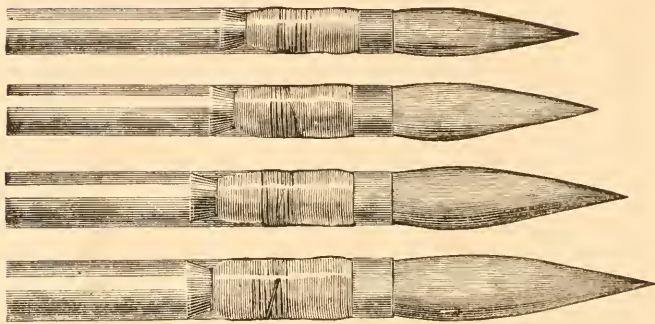
Nos. 1 to 3 same price as Red Sable Miniature Pencils.

Black Sable Miniature Pencils.

Nos. 1 to 8 each .08 to .40

For sizes, see Camel's Hair Miniature Pencils, page 65.

Brown Sable Swan Quills.



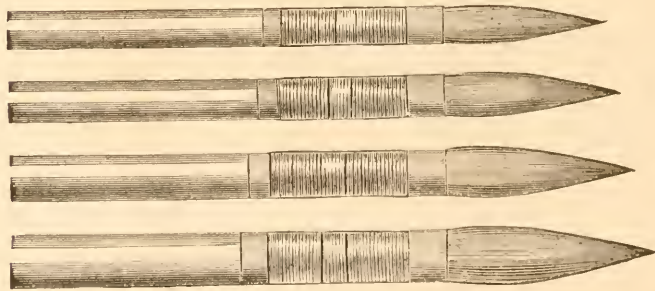
Extra Small Swan Quill	.	.	.	.	.	.	.	.	.	.	\$1.00
Small " "	.	.	.	.	.	.	.	.	.	.	1.25
Middle " "	.	.	.	.	.	.	.	.	.	.	1.50
Large " "	.	.	.	.	.	.	.	.	.	.	2.00
Extra Large " "	.	.	.	.	.	.	.	.	.	.	2.50

Newman's Black Sable Wash Brushes.

. • For Water Colors.

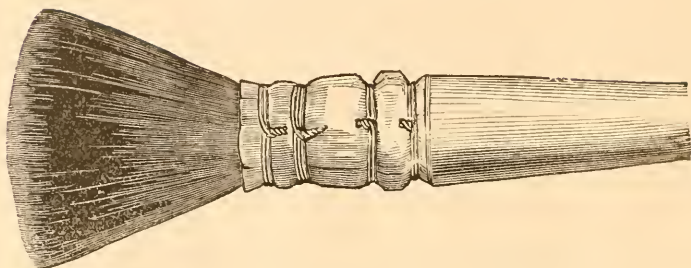
Three sizes, each \$3.00; \$3.25; \$3.50

French Camel's Hair Brushes, in Quills.



Extra Small Swan Quill	.	.	.20	Large Swan Quill	.	.	.	.50
Small Swan Quill	.	.	.30	Extra Large Swan Quill	.	.	.	.60
Middle Swan Quill	.	.	.40	Extra Extra Large Swan Quill	.	.	.	.70

Camel's Hair Gilders' Dusters.



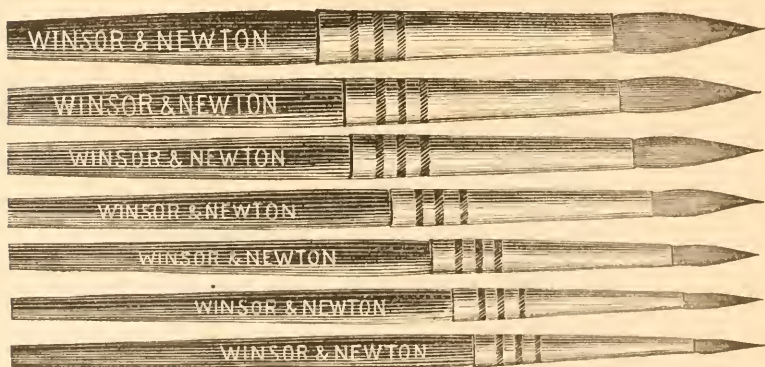
No. 2	.	.	.	.	.	.16	No. 12	.	.	.	.	.	.50
4	.	.	.	.	.	.21	14	.	.	.	.	.	.75
6	.	.	.	.	.	.27	16	.	.	.	.	.	1.00
8	.	.	.	.	.	.30	18	.	.	.	.	.	1.25
10	.	.	.	.	.	.40	20	.	.	.	.	.	1.50

Winsor & Newton's Pocket Sables, in Albata.

Large .	.	.	.	.	.	.	.	.	.	.	.	.	\$3.00
Small .	.	.	.	.	.	.	.	.	.	.	.	.	2.50

The above are so made that a portion of the Albata Ferrule can be removed, turned, and the hair inserted within the handle end, thereby protecting it from all damage when carried in the pocket.

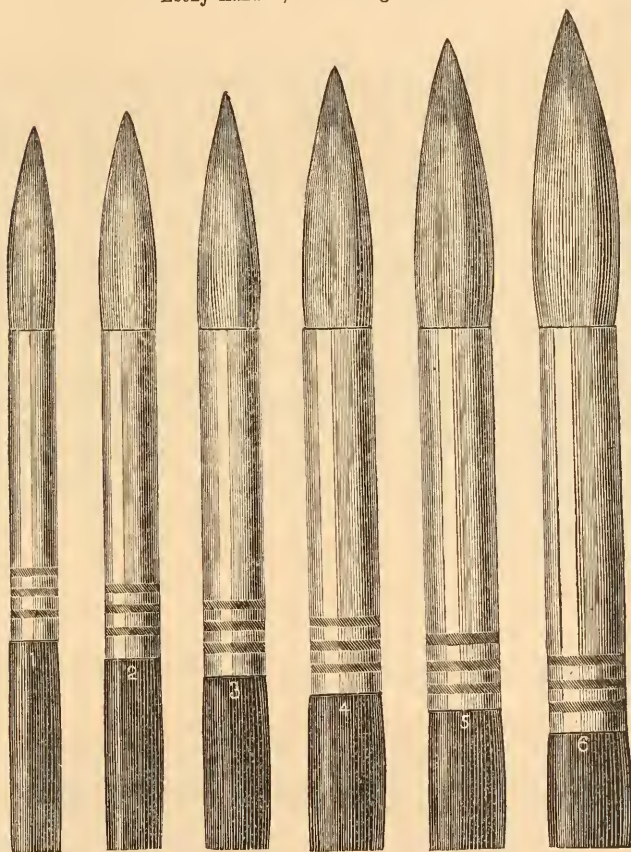
Winsor & Newton's Finest Brown and Red Water Color Sables, in Albata.



No. 0	.	.	.	.	.	.40	No. 4	.	.	.	.	.	.75
1	.	.	.	.	.	.40	5	.	.	.	.	.	.85
2	.	.	.	.	.	.50	6	.	.	.	.	.	1.00
3	.	.	.	.	.	.60	7	.	.	.	.	.	1.50

Round and Flat, same price.

Ebony Handles, Extra Large Series.



No. 1, Round	\$2.25	No. 1, Flat	\$2.25
2, "	3.25	2, "	3.25
3, "	4.25	3, "	4.25
4, "	5.40	4, "	5.40
5, "	6.50	5, "	6.50
6, "	7.50	6, "	7.50

Nos. 4, 5, and 6 made in Brown Sable only.

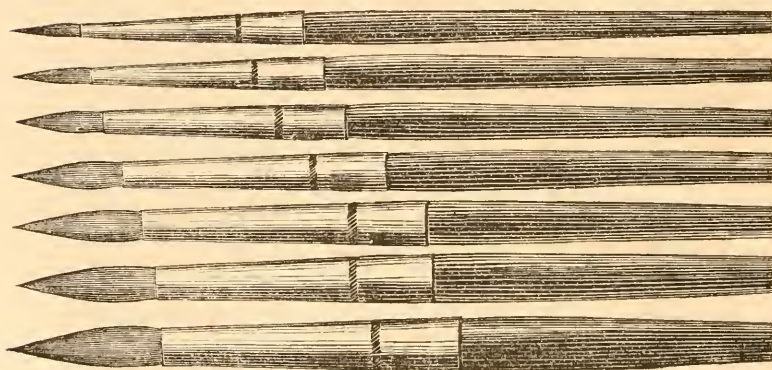
J. D. Harding's Stiff Water Color Brushes.

Made of the Finest Lyons Hair.

Nos. 1 to 6 each .35

French Brown and Red Water Color Sables.

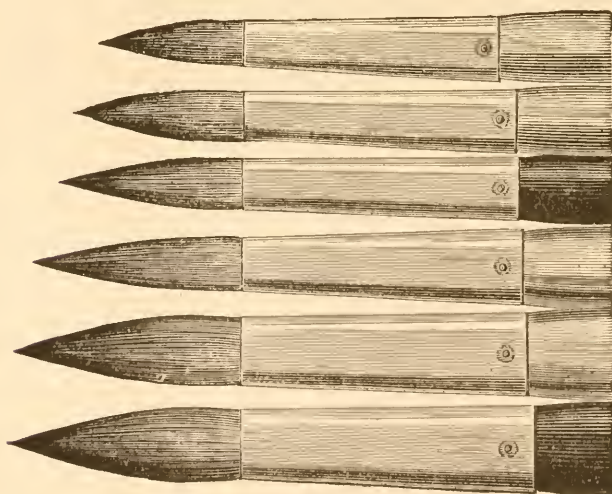
Black Polished Handles. Plated Ferrules.

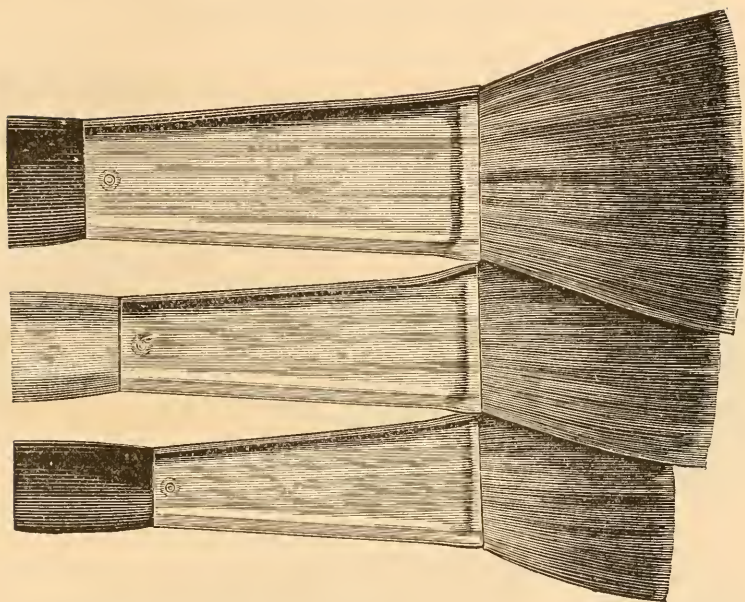


No. o, Red	.	.	.	.	.18	No. o, Black	.	.	.	.	.22
1, "	.	.	.	.	.20	1, "	.	.	.	.	.25
2, "	.	.	.	.	.25	2, "	.	.	.	.	.35
3, "	.	.	.	.	.30	3, "	.	.	.	.	.45
4, "	.	.	.	.	.35	4, "	.	.	.	.	.55
5, "	.	.	.	.	.40	5, "	.	.	.	.	.65
6, "	.	.	.	.	.45	6, "	.	.	.	.	.75
7, "	.	.	.	.	.60	7, "	.	.	.	.	.90
						8, "	.	.	.	.	1.10

French Camel's Hair Brushes in Tin, for Water Color Painting.

Tinting or Lacquering.





Round	each	.08 to .15
Flat, $\frac{3}{8}$ to 1 inch wide	"	.08 to .15
Double Enders, Brush at either end . . . . .		.25

Siberian Camel's Hair Brushes.

Plated Ferrules, Tinting Brush, for Architects' and Engineers' Use.

16 sizes, Round	each	.10 to .30
Double Enders, Brush at either end . . . . .		.20 to .40

Gilders' Tips.

Camel's Hair . . . . .	.10	W. H. & Co.'s Camel's Hair . . . . .	.15
Badger . . . . .	.17		

Riveted French Camel's Hair Varnish Brushes.

1 inch . . . . .	.15	$2\frac{1}{2}$ inch . . . . .	.35
$1\frac{1}{4}$ " . . . . .	.20	3 " . . . . .	.55
$1\frac{1}{2}$ " . . . . .	.22	$3\frac{1}{2}$ " . . . . .	.70
$1\frac{3}{4}$ " . . . . .	.25		
2 " . . . . .	.30		

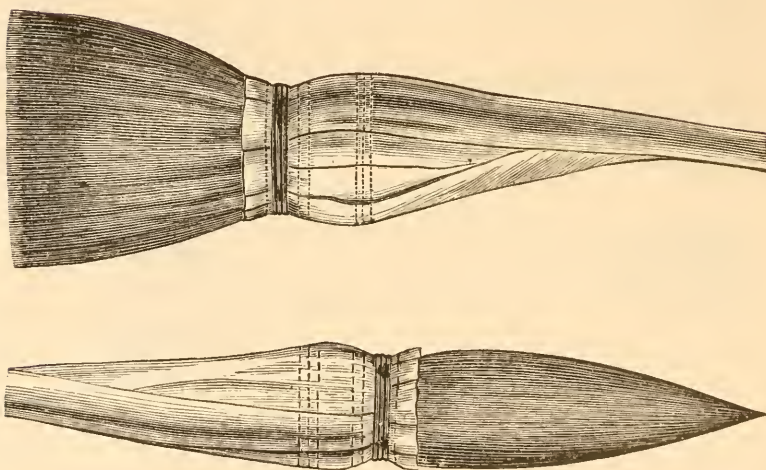
We have ceased importing the English Camel's Hair Varnish Brushes, as they do not give satisfaction, the hair comes out so badly.

Camel's Hair Flowing Varnish Brushes.

1, 1½, 2, 2½, 3, 3½, and 4 inches per inch .25

French Camel's Hair Pencils, in Split Quills.

Square or Pointed.



2 Quills . . . . .	.10	5 Quills . . . . .	.27
3 " . . . . .	.15	6 " . . . . .	.33
4 " . . . . .	.20	8 " . . . . .	.42

Superior Fitch Varnish Brushes in Tin.

Polished Handles, Hair more Elastic than Camel's Hair.

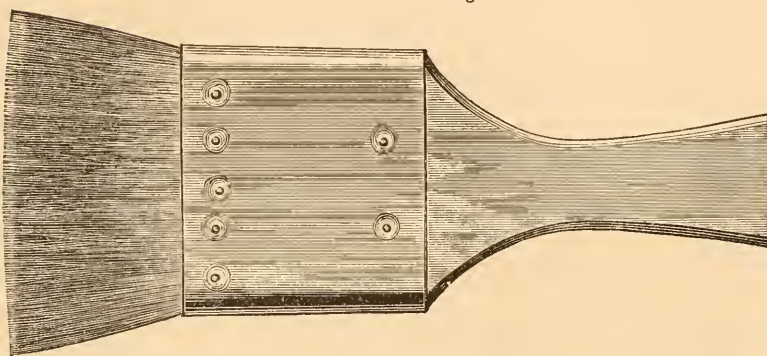
1 inch wide . . . . .	.25	2 inch wide . . . . .	.50
1½ " . . . . .	.38		

Bear's Hair Mottlers, or Color Brushes.

1 inch . . . . .	.12	2½ inch . . . . .	.33
1½ " . . . . .	.18	3 " . . . . .	.42
1¾ " . . . . .	.20	3½ " . . . . .	.56
2 " . . . . .	.25		

French Camel's Hair Mottlers, or Color Brushes.

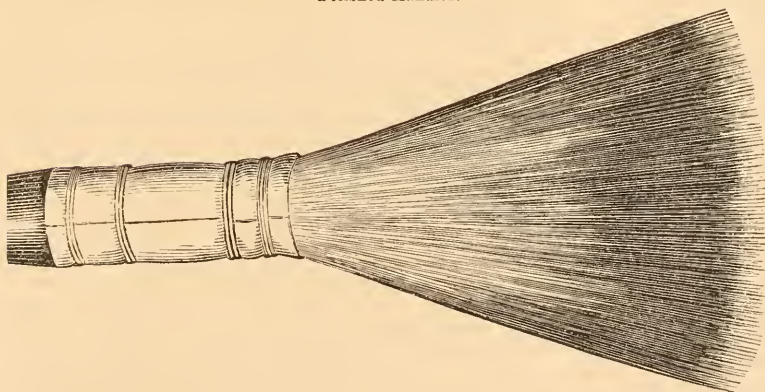
Direct from our Paris Agent.



1 inch wide	.	.	.	.	.18	2 inch wide	.	.	.	.	.50
1 $\frac{1}{4}$ "	.	.	.	.	.25	2 $\frac{1}{2}$ "	.	.	.	.	.65
1 $\frac{1}{2}$ "	.	.	.	.	.34	3 "	.	.	.	.	.75
1 $\frac{3}{4}$ "	.	.	.	.	.40						

French Round Badger Blenders.

Polished Handles.



No. 1	.	.	.	.	.	.20	No. 7	.	.	.	.	.	.66
2	.	.	.	.	.	.25	8	.	.	.	.	.	.75
3	.	.	.	.	.	.33	9	.	.	.	.	.	.87
4	.	.	.	.	.	.42	10	.	.	.	.	.	1.00
5	.	.	.	.	.	.50	11	.	.	.	.	.	1.12
6	.	.	.	.	.	.58	12	.	.	.	.	.	1.25

DRAFTING AND DRAWING PAPERS.

Whatman's Perfect Drawing Papers.

Smooth, Rough, and Extra Rough Surface.

Smooth, Rough, and Extra Rough Surface.							Per Sheet.	Per Quire.
Antiquarian,	31 x 52 inches	.	.	.	.	.	\$1.50	\$30.00
Double Elephant,	27 x 40 "	.	.	.	.	.	.25	5.00
Imperial,	22 x 30 "	.	.	.	.	.	.12	2.35
Super Royal,	16 x 27 "	.	.	.	.	.	.10	2.10
Royal,	19 x 24 "	.	.	.	.	.	.07	1.65
Medium,	17 x 24 "	.	.	.	.	.	.06	1.25
Demy,	15 x 20 "	.	.	.	.	.	.05	0.90

Whatman's Perfect Papers.

Thick and Double Thick, Smooth, Rough, and Extra Rough Surface.

						Per Sheet,	Per Quire,
Double Elephant, 27 x 40 inches	.	.	.	.	.	.50	\$10.00
Imperial, 22 x 30 "	90 lbs.	to	ream	.	.	.20	4.00
" 22 x 30 "	140	"	.	.	.	.25	6.00
" 22 x 30 "	240	"	.	.	.	.50	12.00

Winsor & Newton's Griffin Antiquarian.

A pure, choice and first-class Drawing Paper of Whatman's manufacture.

Size 31 x 52 inches per sheet \$2.25

Harding's Water Color Papers.

Thin, 22 x 29 inches, per sheet .13 | Thick, 22 x 29 inches, per sheet .25

A most desirable paper for Flower Painting in Water Colors. A regular texture, and slightly buff tinted — superior for Pencil Drawing.

German Drawing Papers, Hard Finished Surface.

For Pencilling or Drafting.

For Fencing or Draining.							Per Sheet.	Per Quire.
Double Elephant,	26	x 40	inches	.	.	.	.15	\$2.75
Imperial,	22	x 30	"	.	.	.	.08	1.00
Super Royal,	19	x 27	"	.	.	.	.08	.90
Royal,	19	x 24	"	.	.	.	.06	.70
Medium,	17	x 22	"	.	.	.	.05	.60
Demy,	15 $\frac{1}{2}$	x 19 $\frac{1}{2}$	"	.	.	.	.	.45
Cap,	14	x 17	"	.	.	.	.	.35

Gelatine Paper.

Blue, Green, Purple, Red, White and Yellow.

[illegible]

Tinted Crayon Papers.

English Double Elephant,	27 x 40 inches	.	.	.	per sheet	.20
" Imperial,	22 x 30 "	.	.	.	"	.12
" " Hand-made,	22 x 30 "	.	.	.	"	.20
French " "	21 x 28 "	.	.	.	"	.10
" Royal,	19 x 24 "	.	.	.	"	.08
" Royal Crayon Board,	19 x 24 "	.	.	.	"	.15

Charcoal Papers.

Michallet, 19 x 24 "	.	.	.	.	.	per sheet	.06
Lalanne, 19 x 24 "	.	.	.	.	.	"	.06
Allonge, 19 x 24 "	.	.	.	.	.	"	.08
Rose, 19 x 24 "	.	.	.	.	.	"	.08

Green's Prepared Tints for Pencilling.

These Tints are prepared on stout Drawing Paper for the modern style of Pencil Drawing in Black and White; the White being obtained by scraping the surface off the paper with a knife or eraser.

Imperial, 22 x 30	per sheet	.35
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Pastel Papers, Boards, Etc.

Pastel Paper, Royal,	19 x 24 inches	per sheet	.20
" " Imperial,	21 x 28 "	"	.25
" Board,	21 x 28 "	.	.	.	.	"	.65
Monochromatic Board,	21 x 28 "	.	.	.	.	"	.45
Pastel Board,	18 x 24 "	.	.	.	.	"	.50

White Roll Drawing Papers.

60 inches wide, White (G. Cartoon)	.	.	.	.	.	per yard	.45
59 " " (Eggshell)	.	.	.	.	.	"	.40
54 " " (C. Cartoon)	.	.	.	.	.	"	.25
60 " " (Leonine)	.	.	.	.	.	"	.50
59 " " Paragon	.	.	.	.	.	"	.50

Roll Paper for Detail Drawings.

48 inches wide, Buff Tint Manilla, thin	.	.	.	.	.	per yard	.10
48 " " thick	.	.	.	.	.	"	.12
48 " " extra thick	.	.	.	.	.	"	.15
36 and 56 " " Duplex, in rolls of 30 to 40 lbs.	.	.	.	.	.	per lb.	.25

Cloth Backed or Mounted Papers.

Whatman's Double Elephant, 40 inches wide	.	.	.	.	per sheet	\$1.00
" Imperial, 21 x 30 inches	.	.	.	.	"	.60
Eggshell, 30 inches wide	.	.	.	.	per 10 yard roll, \$6.50; per yard	.70
" 54 "	.	.	.	.	" 10.50; "	1.10
" 60 "	.	.	.	.	" 11.50; "	1.20
German Cartoon, 60 "	.	.	.	.	" 12.00; "	1.20
" 30 "	.	.	.	.	" 6.00; "	.65
Leonine, 62 "	.	.	.	.	" 15.00; "	1.60
Paragon, 58 "	.	.	.	.	" 12.00; "	1.25
Eagle, 36 "	.	.	.	.	" 8.00; "	.45

Superior Tracing Paper.

Roll 20 yards by 40 inches,	.	.	.	.	.	.	.	per roll	\$2.50
" 22 " 38 " very strong,	.	.	.	.	.	.	.	"	5.50
" 33 " 38 " "	.	.	.	.	.	.	.	"	8.00
" 11 " 44 " white,	.	.	.	.	.	.	.	"	.80
" 21 " 44 " "	.	.	.	.	.	.	.	"	1.60
Double Elephant, 27 x 40 inches	.	.	.	.	.	.	.	per quire	\$1.60; per sheet
Imperial, 20 x 30 "	.	.	.	.	.	.	.	"	.06
Vegetal, 19 x 24 "	.	.	.	.	.	.	.	"	.10
D. E. Vegetal, 27 x 40 "	.	.	.	.	.	.	.	"	.30
Crystalline, 22 x 34 "	.	.	.	.	.	.	.	"	.08
Flaxine, 21 x 31 "	.	.	.	.	.	.	.	"	.12
Bond (thin), 21 x 31 "	.	.	.	.	.	.	.	"	.12
So. Kensington,	.	.	.	.	.	.	.	"	.12

Tracing or Vellum Cloth.

Imperial, 18 inches wide	.	.	.	per 24-yard roll	\$3.75; per yard	.25
" 30 "	.	.	.	"	7.00; "	.35
" 36 "	.	.	.	"	8.00; "	.45
" 42 "	.	.	.	"	10.50; "	.50

The Imperial Cloth, designated "Dull Back," having one side unglazed, takes pencil, ink, and color much better than the ordinary glazed surface.

Continuous Profile Paper.

Plate A. — Horizontal Divisions, 4 to the inch; Vertical Divisions, 20 to the inch, and having every tenth horizontal division line, and every fiftieth vertical division line, heavier than the others.	.	.	.	per yard	.30
Plate B. — Horizontal Divisions, 4 to the inch; Vertical Divisions, 30 to the inch, and having every fourth horizontal division line, and every twenty-fifth vertical division line, heavier than the others.	.	.	.	per yard	.30

Plate B corresponds to that in sheets known as Brown's Profile Paper.

Cross Section Papers.

Trautwine's Cross Section and Diagram 10 feet to inch, for embankments of 14 and 24 feet, roadway, and for excavations of 18 and 28 feet rulings 19 ³ / ₄ x 12 inches	.	.	.	.	.	.	per sheet	.25
Cross Section Papers, rulings 22 x 16 inches, 8 feet to inch	.	.	.	.	.	.	"	.25
" " " 20 x 16 " 10 " " every fifth line heavy	.	.	.	.	.	.	per sheet	.25
" " " 21 x 16 inches, 16 feet to inch	.	.	.	.	.	.	"	.25
" " " 8 x 8 " " " " " "	.	.	.	.	.	.	"	.10
" " " division 9 x 9 " " " " " "	.	.	.	.	.	.	"	.10
" " " 12 x 12 " " " " " "	.	.	.	.	.	.	"	.15

White Bristol Boards.

					2 Sheet.	3 Sheet.	4 Sheet.
Cap,	12	x 15	inches	.	.	.08	.10
Demy,	14	x 18	"	.	.	.10	.12
Medium,	16 ¹ / ₂	x 20 ¹ / ₂	"	.	.	.12	.16

Turnbull's Abraded Boards.

					2 Sheet.	3 Sheet.	4 Sheet.
Cap,	12	x 15	inches	.	.12	.15	.20
Demy,	14	x 18	"	.	.15	.20	.25
Medium,	15 ¹ / ₂	x 20 ¹ / ₂	"	.	.20	.30	.38

Autographic Paper.

Ross' Hand Stippled, per quire, \$8.50; per sheet, .38

Heliographic and Ferro-Prussiate Paper.

For Blue Process Copying.

These papers are now largely used by architects and engineers for the *easy* and *rapid* duplicating of drawings, tracings, contracts, estimates, etc., in fact all drawings and writings, provided they are on paper allowing light to pass through, and used on one side only. The following are some of the qualities it possesses:

1. It keeps any length of time if kept in a dark and dry place, and is consequently always ready for use.

2. If exposed to light behind a drawing or tracing, it will give a clear and perfect reproduction of the original, showing *clear white lines* on a blue back-ground.

3. By its use all mistakes of figures or lines are avoided, the reproduction being made photographically, the copy must necessarily be an exact counterpart of the original.

The superiority of the results, and low price of the paper, make it an indispensable article in an office where accuracy is desired.

30 inch,	. . . . .	per roll, \$3.00; per yard, \$	.35
36 inch,	. . . . .	" 3.75; "	.45
42 inch,	. . . . .	" 5.00; "	.55

Unprepared 50 yard rolls.

Thick.				Thin.			
27 inch,	. . .	per roll, \$3.25		27 inch,	. . .	per roll, \$3.50	
30 "	. . .	" 6.00		30 inch,	. . .	" 4.00	
36 "	. . .	" 7.00		36 inch,	. . .	" 4.75	
42 "	. . .	" 8.00		42 inch,	. . .	" 5.25	

Print Frames and Bath Trays.

Print Frames complete with Plate Glass and Carpet Cushion

20 x 24 inches,	. . . . .	each, \$10.50
24 x 30 "	. . . . .	" 15.00
35 x 46 "	. . . . .	" 26.00

Zinc Bath Trays for Washing Copies,

20 x 24 inches,	. . . . .	each, 3.75
24 x 30 "	. . . . .	" 4.50
35 x 46 "	. . . . .	" 6.50

Mounting Boards.

American Imperial	22 x 30 inches, 6 sheet thickness	per sheet	.12
" Half Imperial,	15 x 22 " 6 "	"	.07

Impression Papers.

Black, 12 x 18 inches	per sheet	.08
Blue, 12 x 18 "	"	.08
Red, 12 x 18 "	"	.08
Green 12 x 18 "	"	.08
White, 12 x 18 "	"	.10

Miscellaneous.

Black Card Board,	22 x 28 inches	per sheet	.12
Brown,	22 x 28 "	"	.12
Gray,	"	"	.12
Granite Blue,	"	"	.12
Black Paper,	22 x 28 inches	"	.08
Black Morocco Paper,	22 x 28 "	"	.08
White Tissue Paper,	"	per dozen sheets	.10
Eggshell Paper, Royal,	19 x 24 inches	per sheet	.08
Folio Paper,	17 x 22 "	"	.05

SKETCH-BLOCKS.



Half Bound.

Solid Sketch Blocks, Whatman's Papers.

Rough, and Extra Rough Surface.

Solid Blocks only.		Solid Blocks only.	
16mo Royal,	4 $\frac{1}{2}$ x 5 $\frac{1}{2}$ in.,	.35	8vo Imperial, 7 x 10 in.
16mo Imperial,	5 x 7 "	.45	4to Royal, 9 x 11 $\frac{1}{2}$ "
8vo Royal,	5 $\frac{1}{2}$ x 7 "	.50	4to Imperial 10 x 14 "
			1.40

Solid Sketch Blocks, Whatman's Thick Papers.

Rough, and Extra Rough Surface.				Solid Sketch Blocks, Half Bound.	Solid Blocks only.
16mo Royal,	4½ x 5½ inches	.	.	\$1.00	.40
16mo Imperial,	5 x 7 "	.	.	1.10	.55
8vo Royal,	5½ x 7 "	.	.	1.30	.60
8vo Imperial,	7 x 10 "	.	.	1.40	.85
4to Royal,	9 x 11½ "	.	.	1.75	1.20
4to Imperial,	10 x 14 "	.	.	3.00	1.60
Half Royal,	11 x 18½ "	.	.	3.40	2.10
Half Imperial,	14 x 20 "	.	.	4.00	3.00

Solid Sketch Blocks, Whatman's Extra Thick Papers.

Rough, and Extra Rough Surface.				Solid Sketch Blocks, Half Bound.	Solid Blocks only.
16mo Imperial,	5 x 7 inches	.	.	\$1.35	.80
16mo Double Elephant,	6 x 9 "	.	.	1.80	1.15
8vo Imperial,	7 x 10 "	.	.	2.30	1.40
8vo Double Elephant,	9 x 12 "	.	.	3.25	2.25
4to Imperial,	10 x 14 "	.	.	4.00	2.50
4to Double Elephant,	12 x 18 "	.	.	7.00	4.25
Half Imperial,	.	.	.	8.00	4.70

Solid Sketch Blocks, Harding's Paper.

8vo Imperial,	7 x 10 inches,	Rough or Smooth Surface	.	.	.	.75
4to "	10 x 14 "	" "	.	.	.	1.50
½ "	14 x 20 "	" "	.	.	.	2.70

Solid Sketch Blocks, Harding's Thick Papers.

8vo Imperial,	7 x 10 inches,	Rough or Smooth Surface	.	.	.	\$1.12
4to "	10 x 14 "	" "	.	.	.	2.40
½ "	14 x 20 "	" "	.	.	.	4.70

Extra Thick Creswick Blocks.

4to Imperial, Blocks only	10 x 14 inches,	.	.	.	\$3.50
4to Double Elephant, Blocks only	12 x 18 "	.	.	.	5.00

Solid Block Sketch Books.**With Fixed Edges.**

These Sketch Books are made similar to the half-bound Sketch Books, but with the three outer edges fixed like the Block. On cutting these latter around in the usual manner, the block becomes a Sketch Book.

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"	7 x 10 "	" Extra Thick Paper	2.30
"	7 x 10 "	Creswick, "	2.50
32mo "	3½ x 5 "	Whatman's Paper	.65

Charcoal Sketch Blocks, Berville and Michallet Superior Paper.

Half Royal, 11 x 18 inches	.95	4to Royal, 9 x 11 inches	.65
Gray tinted paper, same sizes and prices as above.			
Half Royal, 11 x 18 inches, ex. thick,	\$1.25	Royal, 16 x 22 inches,	\$1.75
" " 11 x 18 " (French),	1.25		

Charcoal Sketch Blocks, Allonge Superior Paper.

Half Royal, 11 x 18 inches	\$1.20	4to. Royal, 9 x 11 inches	.80
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Charcoal Sketching Folios.

Small, containing Charcoal Sketch Block, about 11 x 18 inches	.	.	\$2.50
Large, " " " 18 x 23 "	.	.	3.25

Linen Sketch Books.

White Paper, Linen Covers.

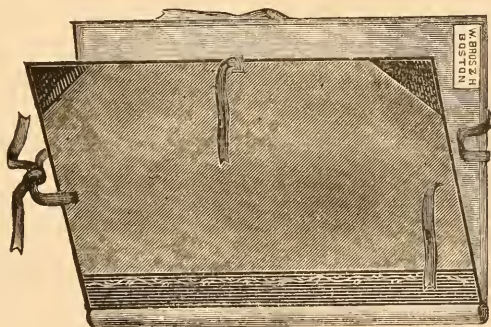
4 x 7 inches30	7½ x 10 inches65
5 x 8 "35	8½ x 11 "80
5¾ x 9 "40			

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Level Books, 4 x 6½ inches, made of superior paper50
Transit " 4 x 6½ " " " "50
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					Plain.	With inside flaps.
10 x 14 inches	\$1.20	\$1.88
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Larger and irregular sizes made to order at short notice.

Paper Sides, Leather Corners and Backs,

For Architects' and Engineers' Use.

10 x 14 inches	. . . . .	.75	16 x 22 inches	. . . . .	1.30
11 x 16 "	. . . . .	.85	18 x 24 "	. . . . .	1.45
14 x 18 "	. . . . .	1.20	22 x 30 "	. . . . .	1.50

Paper Sides, Cloth Backs and Corners.

10 x 14 inches55	16 x 22 inches85
12 x 16 "60	18 x 24 "	1.15
14 x 18 "70	22 x 30 "	1.30

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1.	Italian Boy (Thoughts of Home)	<i>Guido Bach.</i>
2.	Girl's Head (Poor Little Bessie)	<i>Mrs. Backhouse.</i>
3.	A Girl with Book (A Girl Reading)	<i>Emily Farmer.</i>
4.	Boy's Head	<i>G. E. Hicks.</i>
5.	Girl Carrying a Child (Crossing the Moor)	<i>J. J. Hill.</i>
6.	Female Head of Reaper (Village Belle)	"
7.	Girl's Head	<i>F. Goodall, R.A.</i>
8.	Figure of Child	<i>Mrs. Backhouse.</i>
9.	Girl's Head (Food for Bunny)	"
10.	Child Reading (Little Student)	<i>Mrs. Anderson.</i>
11.	Girl, with Dog	<i>Merle.</i>
12.	Boy, with Cat	"
13.	Head, Gervatius	<i>Vandyke.</i>
14.	Child, with Corn (Little Gleaner)	<i>Le Jeune, A.R.A.</i>
15.	Girl (Water Carrier)	"
16.	Head of Boy, Praying	"
17.	Female Head (Day Dreams)	<i>J. J. Hill.</i>
18.	Figure of Man (Harvestman)	<i>O. Oakley.</i>
19.	Gipsy Girl (Queen of Hearts)	<i>C. Baxter.</i>
20.	Figure of Boy (Mussel Gatherer)	<i>O. Oakley.</i>
21.	Italian Boy	<i>Beppo.</i>
22.	Girl's Head	<i>G. E. Hicks.</i>
23.	Girl's Head	<i>Greuze.</i>
24.	Girl and Child (Day Dreams)	<i>J. J. Hill.</i>
25.	Girl's Head	<i>Greuze.</i>
26.	Psyche, with Vase	<i>Robert Beyschlog.</i>
27.	Rubens' Daughter	<i>Rubens.</i>
28.	Head of Psyche	<i>Robert Beyschlog.</i>
29.	Girl, with Pitcher (Rustic Thoughts)	<i>W. T. Dobson, R.A.</i>
30.	Girl Strewing Flowers (Holy Thursday)	<i>T. Waite.</i>
31.	French Girl's Head, from Nature	"
32.	Children Riding Donkey (Ride Home)	<i>Birkett Foster.</i>

No.		Artist's Name.
33.	Sportsman, with Dogs, &c. (A Good Bag)	<i>J. Hardy.</i>
34.	Italian Boy	<i>Trevillian Goodall.</i>
35.	Woman and Child (Coming Through the Snow)	<i>E. J. Corbett.</i>
36.	Child Cutting Apple (Rosy Cheeks)	<i>Emily Farmer.</i>
37.	Heads, Horses Eating	<i>Herring.</i>
38.	Head of Spanish Boy	<i>Murillo.</i>
39.	Woman Carrying a Child (Crossing the Mountain)	<i>P. F. Poole, R.A.</i>
40.	Girl, with Sheep (Little Shepherdess)	<i>J. Henzel.</i>
41.	Man's Head (Venetian Boatman)	<i>F. Goodall, R.A.</i>
42.	Heads, Horses Drinking	<i>Herring.</i>
43.	Rabbits Eating (The Poachers)	<i>T. Earl.</i>
44.	Kittens and Mice	"
45.	Woman and Child (Happy Hours)	<i>J. J. Hill.</i>
46.	Figure of Girl (Italian Peasant Girl)	<i>E. Lundgren.</i>
47.	Figure of Girl	"
48.	Female Head (Happy Hours)	<i>J. J. Hill.</i>
49.	Female Head (Tired Out)	"
50.	Girl Catching Water (At the Spring)	<i>J. D. Watson.</i>
51.	Female Head	<i>G. D. Leslie, R.A.</i>
52.	Mother and Daughter	<i>Vigee Lebrun.</i>
53.	Head of Child	<i>W. Dyce, R.A.</i>
54.	Head of Child, from Life	<i>P. Gauci.</i>
55.	Madonna and Child	<i>Murillo.</i>
56.	Study of a Jew	<i>Rembrandt.</i>
57.	Flower Girl	<i>Murillo.</i>
58.	Childhood	<i>Brocky.</i>
59.	Innocence	<i>Winterhalter.</i>
60.	Citizen of Antwerp	<i>Vandyke.</i>
61.	Girl and Macaw	<i>Landseer.</i>
62.	Magdalen	<i>Murillo.</i>
63.	Female Head	"
64.	Gleaner	<i>Sir Edwin Landseer.</i>
65.	Strawberry Girl	<i>Sir Joshua Reynolds.</i>
66.	Girl's Head (From a Photo taken by Lock and Whitfield)	
67.	The Age of Innocence	<i>Sir Joshua Reynolds.</i>
68.	Head of a Jew	<i>Rembrandt.</i>
69.	Female Head, Study from Nature	<i>J. E. Goodall.</i>
70.	Head of Christ (National Gallery)	<i>Guido.</i>
71.	Infant Samuel	<i>Sir Joshua Reynolds.</i>
72.	Girl's Head	<i>Greuze.</i>
73.	Andrea Del Sarto	<i>Himself.</i>
74.	Girl, with Lamb	<i>Bouguereau.</i>
75.	Vengeance	<i>Landels.</i>
76.	Waldacien Woman	<i>Leconte.</i>
77.	Head of Child	<i>W. Bouguereau.</i>
78.	Charles I	<i>Vandyck.</i>
79.	Phoebe Mayflower	<i>R. Gavin, A.R.S.A.</i>
80.	Portrait of a Lady	<i>J. Raphael Smith.</i>
81.	Girl's Head, from Life	<i>J. E. Goodall.</i>
82.	Nature (Two Girls)	<i>Sir T. Lawrence, R.A.</i>
83.	The Proffered Kiss (Boy and Girl)	"
84.	Brittany Peasant Girl	<i>J. E. Goodall.</i>
85.	Brittany Peasant	"
86.	Arab Chief	
87.	Arab Woman	
88.	Boy at Stream	<i>Sir T. Lawrence, R. A.</i>
89.	Girl with Flowers.	"
90.	R. Morghen's Daughter	<i>Raffaele Morghen.</i>
91.	Roman Peasant Woman	
92.	Girl's Head	<i>G. E. Hicks.</i>
93.	Girl's Head. From a photo.	
94.	Girl's Head.	<i>Vinter.</i>
95.	Girl's Head. From a photo.	

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No. 1.	The Forester with Hounds and Dead Stag.	Sir Edwin Landseer.	each	.45
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" 10.	Alexander and Diogenes.	" "	"	.45
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" 13.	Sanctuary.	" "	"	.45
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" 5.	Circassian. Turko-Russian war, 1877.	" "	"	.45
" 6.	Apache Indian.	" "	"	.45
" 7.	Highland Gillie.	" "	"	.45
" 8.	Irishman returning from the market.	" "	"	.45
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" 10.	Trooper Black Hussars. Frederick the Great's army, 1756.	" "	"	.45
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" 3.	Dog's Head.	" " "	" "	"	.75
" 4.	Bull's Head.	" " "	Sydney T. Cooper.	"	.75
" 5.	Donkey's Head from Nature.	Size 20x27, in Sepia.	" "	"	.75
" 6.	Lion's Head from Photograph.	" " "	" "	"	.75
" 7.	Tiger's Head from Photograph.	" " "	" "	"	.75
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6.	6 $\frac{3}{4}$	x 4 $\frac{3}{4}$	—The Marsh	.20
7.	6 $\frac{3}{4}$	x 4 $\frac{3}{4}$	—Stone Bridge	.20
8.	8 $\frac{1}{4}$	x 4 $\frac{1}{2}$	—Trunk of Tree	.20
9.	8 $\frac{1}{4}$	x 5 $\frac{1}{2}$	—Hill Side	.20
10.	10	x 7	—Boat, Ventnor	.30
11.	10	x 5 $\frac{3}{4}$	—Rough Shed, Portslade	.30
12.	10	x 6 $\frac{3}{4}$	—Farm Shed, near Epsom	.30
13.	{ 6 $\frac{3}{4}$	x 4 $\frac{3}{4}$	—Cottage, Cranleigh	.30
	{ 6 $\frac{3}{8}$	x 4 $\frac{1}{2}$	—Cottage, Didcot	.30
14.	9 $\frac{3}{4}$	x 7 $\frac{7}{8}$	—Cottage, Hagbourne	.30
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16.	9 $\frac{3}{4}$	x 7 $\frac{7}{8}$	—At Lancing, Sussex	.30
17.	9	x 6 $\frac{1}{2}$	—Fir Trees	.30
18.	9 $\frac{3}{4}$	x 7 $\frac{3}{4}$	—Old Willow Tree	.30
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20.	11 $\frac{7}{8}$	x 8 $\frac{1}{8}$	—Fir Trees, Greenwich Park	.45
21.	13 $\frac{1}{4}$	x 9 $\frac{1}{8}$	—Fir Trees, Greenwich Park	.45
22.	12 $\frac{1}{4}$	x 9 $\frac{5}{8}$	—Fir Trees, Greenwich Park	.45
23.	13 $\frac{1}{2}$	x 9	—Fir Trees, Appaldurcombe Park	.45
24.	10 $\frac{1}{2}$	x 6 $\frac{1}{2}$	—Farm Wagon	.45
25.	9 $\frac{3}{8}$	x 6 $\frac{5}{8}$	—Shed and Cottage, near Bramber	.30
26.	9 $\frac{3}{8}$	x 6 $\frac{5}{8}$	—Cottage, Bromley	.30
27.	14 $\frac{1}{4}$	x 7 $\frac{1}{8}$	—Cottages, Farnborough	.60
28.	14 $\frac{1}{4}$	x 7 $\frac{1}{8}$	—Cottages, Ringwood	.60
29.	13 $\frac{1}{4}$	x 7 $\frac{1}{4}$	—Roadside Cottage	.60
30.	14 $\frac{1}{2}$	x 7 $\frac{1}{4}$	—Cottage, Sopley	.75
31.	6 $\frac{1}{2}$	x 11 $\frac{1}{4}$	—Cottage and Well	.75
32.	6 $\frac{1}{2}$	x 16	—Wooden Bridge, Shoreham	.75
33.	6 $\frac{1}{2}$	x 16	—Beach, Ventnor	.75
34.	7 $\frac{1}{2}$	x 11 $\frac{1}{4}$	—Powder Ship, Medway	.45
35.	7 $\frac{1}{2}$	x 11 $\frac{1}{4}$	—Old Hulk, Woolwich	.45
36.	7	x 13 $\frac{1}{4}$	—At Eltham, Kent	.75

* "Leaves from T. L. Rowbotham's Sketch Book," Part II. Printed and published by George Rowney & Co.

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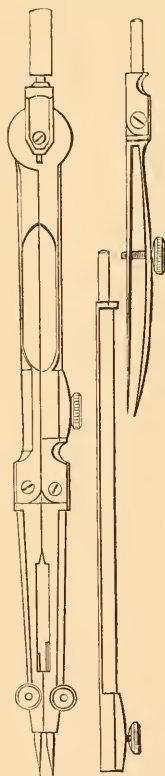
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1 A.

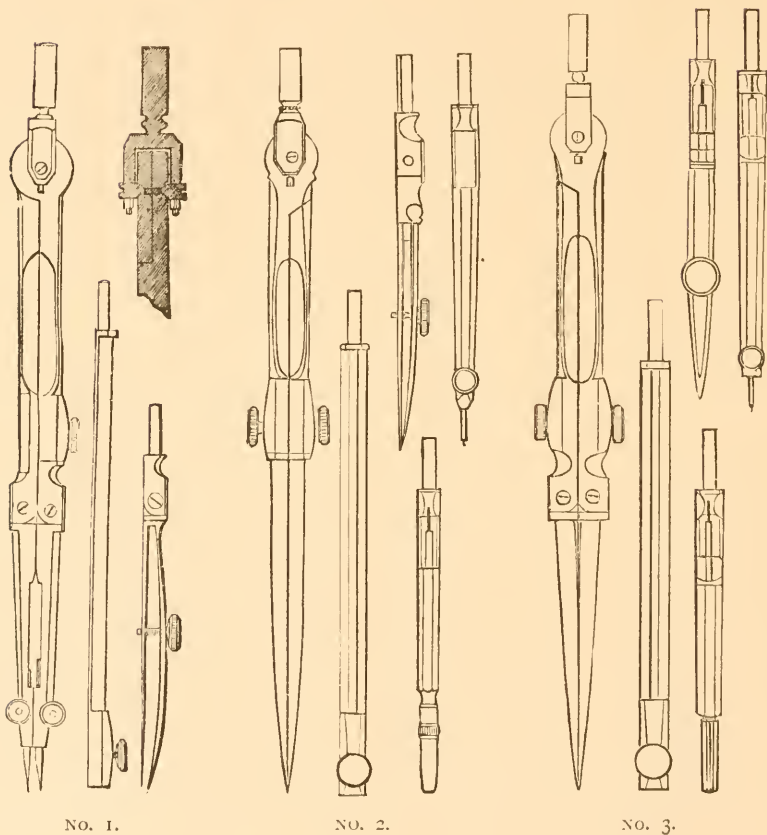


2 A.

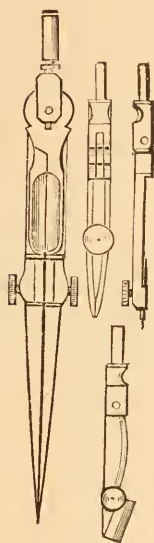


3 A.

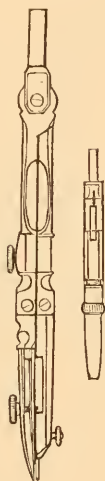
- | | | |
|----------|--|--------|
| No. 1 A. | New Patent Needle Point Dividers, 6 inches long, with Fixed Pen-Point, | \$5.75 |
| 2 A. | New Patent Needle Point Dividers, 6 inches long, for stepping, with Needle to change for Pencil Point, | 5.75 |
| 3 A. | New Patent Needle Point Dividers, 6 inches long, with Pen and Pencil Points, and Lengthening Bar, | 8.75 |



- | | | |
|--------|---|--------|
| No. 1. | Needle Point Dividers of German Silver, 6 inches long, with Pen and Pencil Point and Lengthening Bar, and Alteneder's Patent Joint, | \$6.50 |
| 2. | Dividers, $6\frac{1}{2}$ inches long, with Pen, Pencil, Needle Points and Lengthening Bar, both legs to change, | 8.50 |
| 3. | Same as No. 2, but with joint in each leg of Divider, | 11.00 |



NO. 4.



NO. 5.



NO. 6.

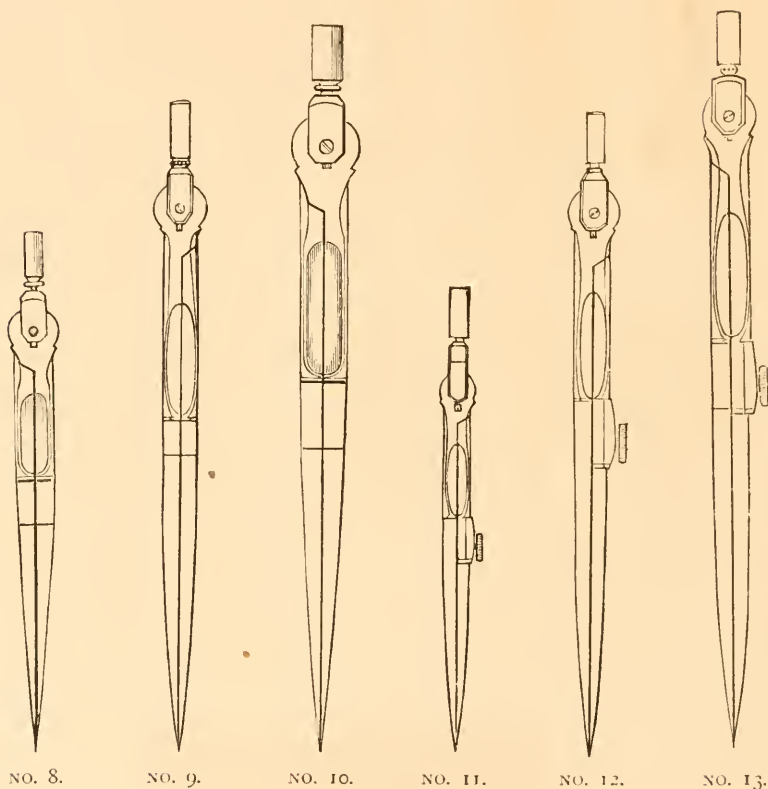


NO. 7.

- | | | |
|--------|---|--------|
| No. 4. | Dividers, $3\frac{1}{2}$ inches long, with Pen, Pencil and Needle Points, both legs to change, | \$7.00 |
| 5. | Needle Point Dividers of German Silver, $3\frac{1}{2}$ inches long, with Pen and Pencil Points, and Alteneder's Patent Joint, | 6.25 |
| 6. | Needle Point Dividers of German Silver, $3\frac{1}{2}$ inches long, with Pencil Point and Alteneder's Patent Joint, | 4.25 |
| 7. | Needle Point Dividers of German Silver, $3\frac{1}{2}$ inches long, with Pen Point and Alteneder's Patent Joint, | 4.25 |

For Illustrations of Nos. 8-13, see page 108.

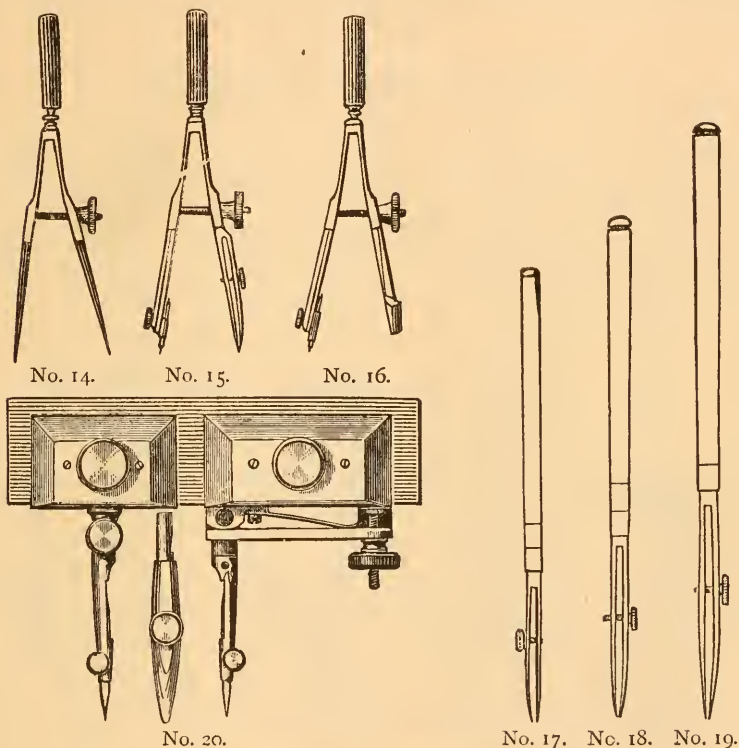
- | | | |
|--------|---|--------|
| No. 8. | Plain Dividers of German Silver, $3\frac{1}{2}$ inches long, with Alteneder's Patent Joint, | \$2.00 |
| 9. | Plain Dividers of German Silver, 5 inches long, with Alteneder's Patent Joint, | 2.75 |
| 10. | Plain Dividers of German Silver, 6 inches long, with Alteneder's Patent Joint, | 3.25 |
| 11. | Hair Spring Dividers of German Silver, $3\frac{1}{2}$ inches long, with Alteneder's Patent Joint, | 3.00 |
| 12. | Hair Spring Dividers of German Silver, 5 inches long, with Alteneder's Patent Joint, | 3.25 |



- No. 13. Hair Spring Dividers of German Silver, 6 inches long, with Alteneder's Patent Joint, \$4.00

For Illustrations of Nos. 14-20, see next page.

- | | | |
|---------|---|--------|
| No. 14. | Steel Spacing Dividers, 3 inches long, | \$2.00 |
| 15. | Steel Bow Pen, 3 inches long, with Needle Point, | 2.70 |
| 16. | Steel Bow Pencil, 3 inches long, with Needle Point, | 2.70 |
| 17. | Drawing Pen, $4\frac{1}{2}$ inches long, | 1.50 |
| 18. | " $5\frac{1}{2}$ " | 1.70 |
| 19. | " $6\frac{1}{2}$ " | 1.95 |
| 20. | Furniture for Straight-Edge Beam Compasses, with Spring Adjustment, in morocco box, | 8.00 |
| 20a. | Mahogany Bar, 30 inches long, for same, | .75 |
| 20b. | Boxwood Bar, 24 inches long, graduated, | 1.50 |



No. 20 C.

No. 20 C. Morocco Pocket Case: containing pair Patent Needle Point Dividers, 6 inches long, with Pen, Pencil Point, and Lengthening Bar. No. 3 A.

Pair Hair Spring Dividers, with Patent Joint, 5 inches long. No. 12.

Drawing Pen, $4\frac{1}{2}$ inches long. No. 17.

Drawing Pen, $5\frac{1}{2}$ inches long. No. 18.

Steel Spring Spacing Dividers, 3 inches long. No. 14.

Steel Bow Pen, 3 inches long, with Needle Point. No. 15.

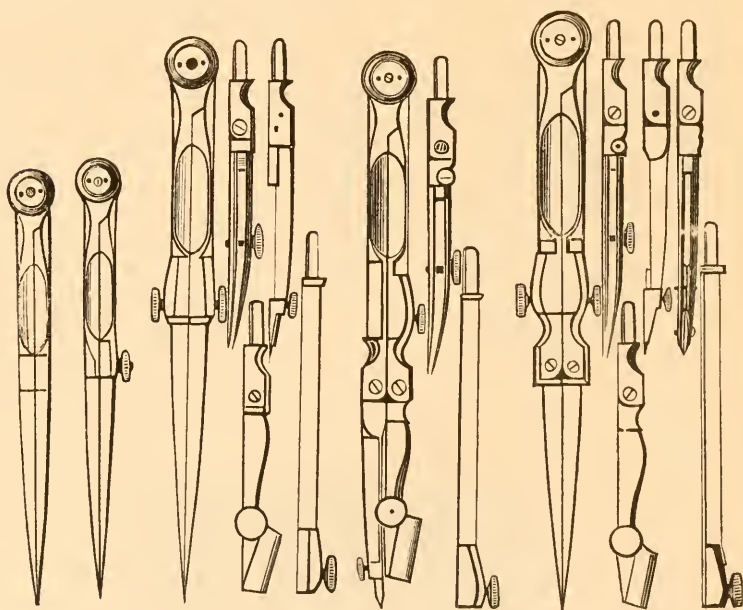
Steel Bow Pencil, 3 inches long, with Needle Point. No. 16.

Box Leads \$16.50

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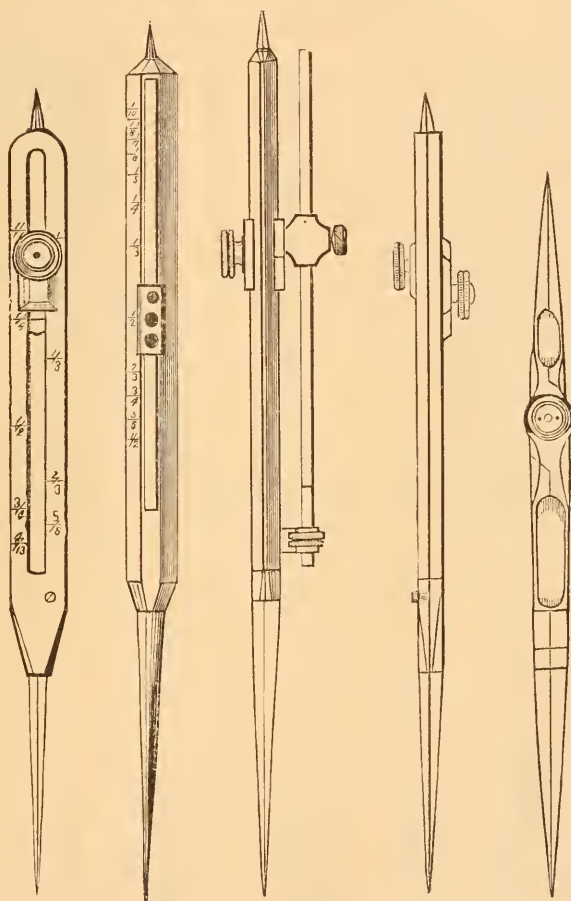
NO. 21. NO. 24.

NO. 26.

NO. 27.

NO. 28.

NO. 21.	Plain Dividers, $4\frac{1}{2}$ inches long,	\$1.50
22.	" 5 "	1.75
23.	" 6 "	2.50
24.	Hair Spring Dividers, $4\frac{1}{2}$ inches long,	. . . . .	2.25
25.	" " 5 to 6 "	. . . . .	2.50
26.	Dividers, $6\frac{1}{2}$ inches long, with Pen, Pencil, Needle Points and Lengthening Bar,	. . . . .	6.50
27.	Dividers, $6\frac{1}{2}$ inches long, with fixed Needle Point and Loose Pen, and Pen Points and Lengthening Bar,	. . . . .	6.00
28.	Dividers, $6\frac{1}{2}$ inches long, joints in each leg, with Pen, Pencil, Needle Points, Dotting Pen and Lengthening Bar,	. . . . .	9.00



NO. 29.

NO. 31.

NO. 32.

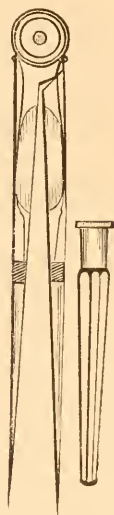
NO. 33.

NO. 34.

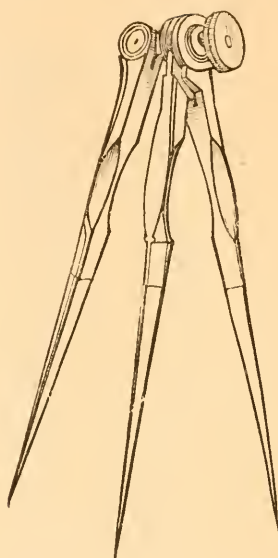
No. 29.	Proportional Dividers, $6\frac{1}{2}$ inches long, finely graduated for lines,	\$8.00
30.	and Polygons,	9.00
31.	Proportional Dividers, 9 inches long, finely graduated for lines	10.00
	and polygons,	12.00
32.	Proportional Dividers, 9 inches long, with micrometer adjustment,	10.50
	finely graduated for lines and polygons,	4.25
33.	Proportional Dividers, 8 inches long, with rack adjustment, grad-	
	uated for lines,	
34.	Bisecting Dividers, $7\frac{1}{2}$ inches long,	

For Illustrations of Nos 35, 36, see next page.

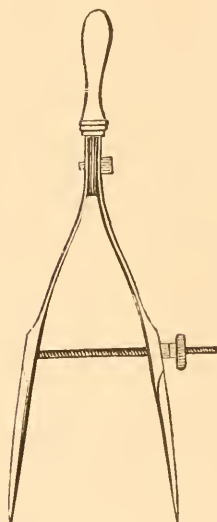
No. 35	Pocket Dividers, 5 to 6 inches long, with Sheath,	2.40
36.	Three-Legged Dividers, 5 to 6 inches long,	4.25



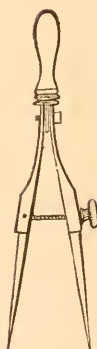
No. 35.



No. 36.



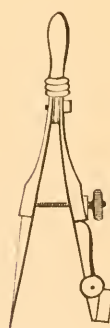
No. 37.



No. 38.

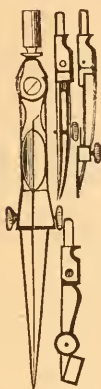


No. 39.



No. 40.

- | | | |
|---------|--|--------|
| No. 37. | Steel Spacing Dividers 5 inches long, with Ivory Handle, . . . | \$2.50 |
| 38. | " " 3½ " " with Ivory or Metal Handle, . . . | 1.50 |
| 39. | Spring Bow Pen, all Steel, Ivory Handle, . . . | 2.00 |
| 40. | All Steel Spring Bow Pencil, Ivory Handle, . . . | 2.00 |



NO. 41.



NO. 42.

- | | | |
|---------|---|--------|
| No. 41. | Dividers, 4 inches long, with Pen, Pencil and Needle Points, | \$5.00 |
| 42. | " 4 " with fixed Needle Point, and Pen and Pencil Points, changeable, | 4.50 |



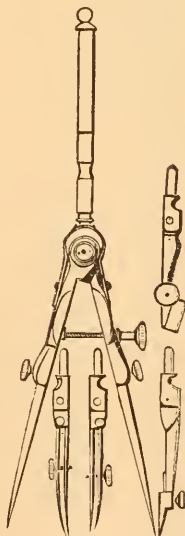
NO. 43.



NO. 44.

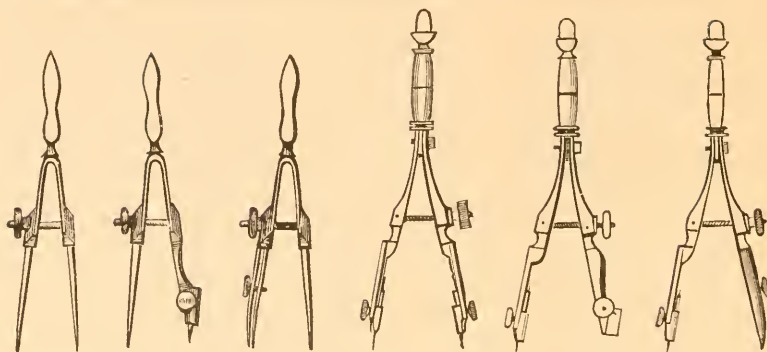


NO. 45.



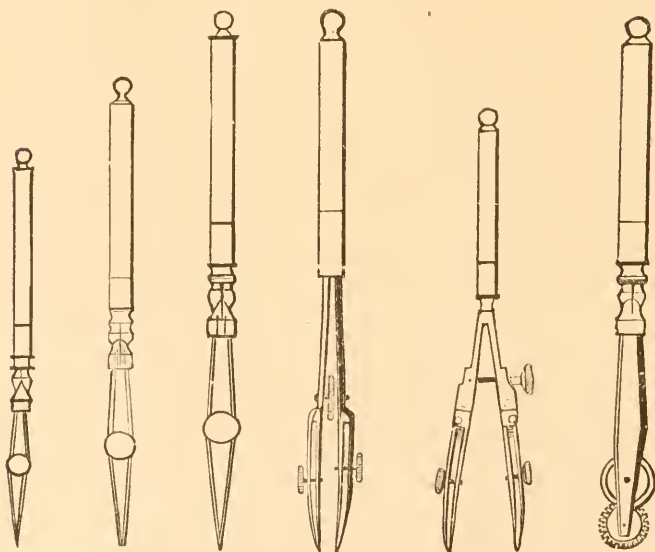
NO. 46.

- | | | |
|---------|---|--------|
| No. 43. | Dividers, 4 inches long, with two fixed Needle Points, | \$3.00 |
| 44. | " 4 " with fixed Needle Point and Pen Point, | 3.00 |
| 45. | " 4 " with fixed Needle Point and Pencil Point, | 3.00 |
| 46. | " 4 " with Spring and Set Screw, Needle Point, Pencil Point and two Pen Points, | 7.00 |



No. 47. No. 48. No. 49. No. 50. No. 51. No. 52.

No. 47.	Very delicate Steel Spacing Dividers, $2\frac{1}{2}$ inches long	\$1.70
48.	" " Bow Pencil, $2\frac{1}{2}$ inches long	2.25
49.	" " " Pen, $2\frac{1}{2}$ inches long	2.25
50.	Steel Spacing Dividers, $3\frac{1}{2}$ inches long, with Ivory Handle and Needle Points	2.50
51.	All Steel Spring Bow Pencil, Ivory Handle, Needle Point	2.40
52.	Spring Bow Pen, with Needle Point, all Steel, Ivory Handle	2.40



No. 53.	No. 54.	No. 55.	No. 56.	No. 57.	No. 58.
No. 53.	Drawing Pen, $4\frac{1}{2}$ inches long, with joints				\$1.25
54.	" $5\frac{1}{2}$ "	" "			1.40
55.	" $6\frac{1}{2}$ "	" "			1.60

No. 56.	Road, or Double Drawing Pen	\$3.75
57.	“ “ “ with joint in each side	3.00
58.	Dotting Pen, with one wheel	2.00
59.	“ “ six wheels	3.50

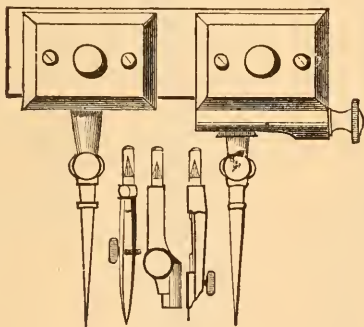


No. 60.



No. 62.

No. 60.	Horn Centre, with German Silver edges . . . . .	.40
61.	German Silver Centre, with handle . . . . .	.30
62.	Horn Centre, plain . . . . .	.13



No. 63.



No. 67. (Closed.)

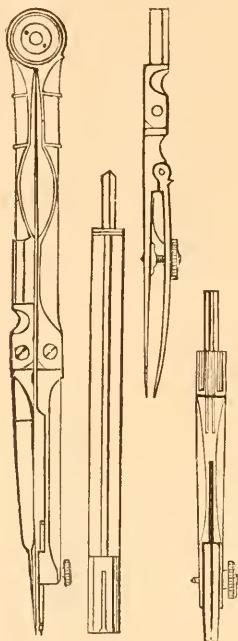
No. 63.	Furniture for Wood Bar Beam Compasses, in morocco box	7.00
64.	“ “ “ not in morocco box	6.75
65.	Pillar Compasses, or Pocket Set of Instruments, with points to change	7.50
66.	Pillar Compasses, or Pocket Set of Instruments, with Points to change, and Handles to Bow Pen and Pencil	8.00
67.	Pillar Compasses, or Pocket Set of Instruments, with Points to turn	7.50

Superior English Instruments

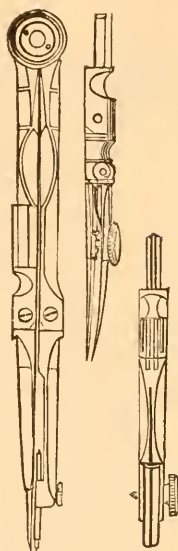
Of Best English Steel and German Silver.

For Illustrations of Instruments Nos. 68, 69, see next page.

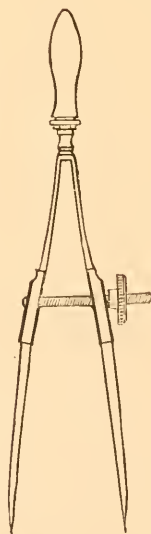
No. 68.	Needle Point Dividers, 5 inches long, with Pen and Pencil Point, and Lengthening Bar	7.00
69.	Needle Point Dividers, 4½ inches long, with Pen and Pencil Point	6.50
70.	Bow Pen, 4 inches long, with Ivory Handle, Needle Point, and joint in each leg	3.50
71.	Bow Pencil, 4 inches long, with Ivory Handle, Needle Point, and joint in each leg	3.50



No. 68.

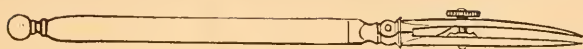


No. 69.



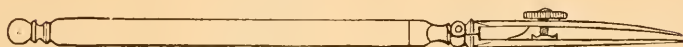
No. 72.

No. 72. Spring Dividers, $4\frac{1}{2}$ inches long \$3.20



No. 73.

No. 73. Drawing Pen, 4 inches long, with joint \$1.50



No. 74.

No. 74. Drawing Pen, $4\frac{3}{4}$ inches long, with joint \$1.60

Also an assortment of German Silver Nickel Plated Instruments for use of Schools, from \$1.00 to \$2.00 per set.

Instruments of German Silver,

For Accurate Drafting.



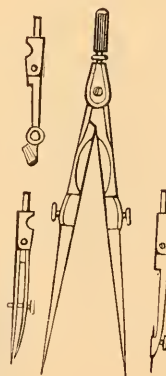
No. 75.



No. 79.

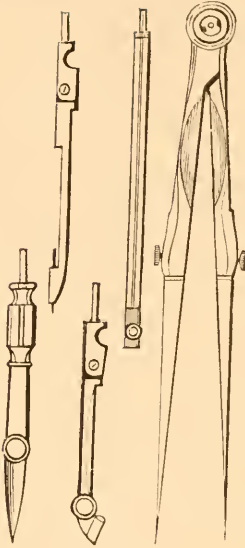


No. 82.



No. 83.

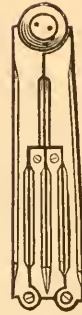
No. 75.	Dividers, German Silver, 4 inches long, Steel Joints	.70
76.	" " 5 " "	.80
77.	" " 6 " "	1.00
78.	" " 7 " "	1.25
79.	" " 4 " " with Hair Spring	1.25
80.	" " 5 " "	1.50
81.	" " 6 " "	1.75
82.	German Silver Plain Dividers, 3 inches long, with handle	.75
83.	Dividers, German Silver, 3 inches long, with Pen, Pencil, and Needle Points	2.35



No. 84.

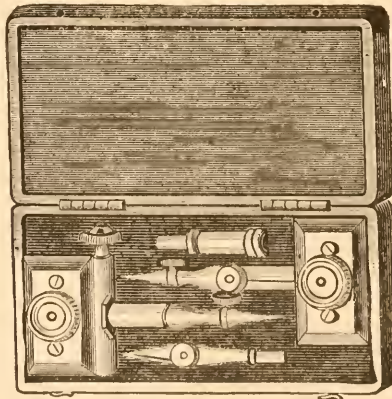


No. 87.



No. 91.

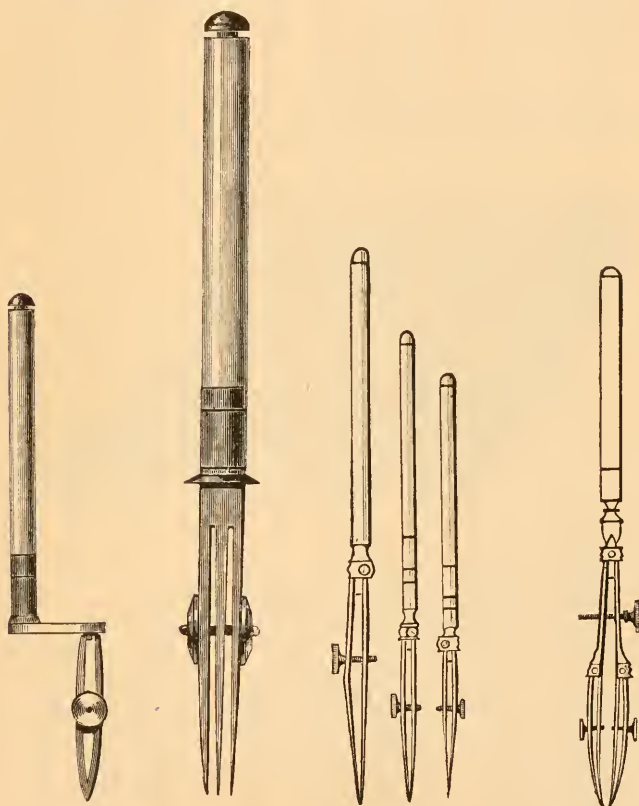
- | | | |
|---------|---|--------|
| No. 84. | Dividers, German Silver, 6 inches long, Steel Joints, with Pen, Pencil and Needle Points and Lengthening Bar, | \$3.00 |
| 85. | Dividers, German Silver, 5 inches long, Steel Joints, with Shield for Pocket, | 1.50 |
| 86. | Dividers, German Silver, 5 inches long, Steel Joints, with three legs | 3.50 |
| 87. | Proportional Dividers, German Silver, 6½ inches long, divided for lines, | 2.50 |
| 88. | Bisecting Dividers, German Silver, | 1.00 |
| 89. | Set of three Steel Bows, Pen, Pencil and Dividers, in box, per set, | 4.75 |
| 90. | Spacing Dividers, all Steel, with Spring and Adjusting Screw, | 1.25 |
| 91. | Pocket Dividers, German Silver, with Folding Pen and Pencil Points, | 5.25 |



No. 92.

See Illustration of No. 92 on preceding page.

No. 92. Furniture for Beam Compasses, German Silver, with Adjusting Screw, in morocco case, \$6.50

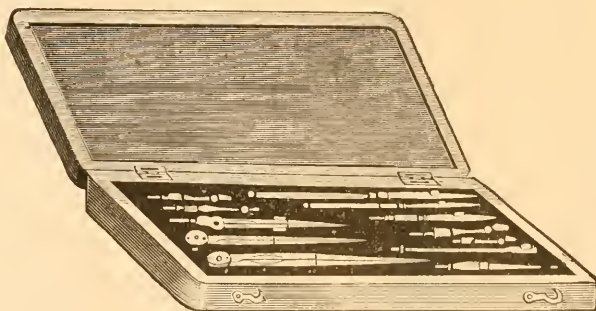


	NO. 93.	NO. 94.	NO. 97.	NO. 99.	
No. 93.	Drawing Pen for curves,				1.50
94.	"	for heavy border lines,			3.00
95.	"	4 to 6 inches long, medium finish, Hinge to Pen,			.40
96.	"	" " fine finish, Hinge to Pen,			.50
97.	"	German Silver, 4 to 6 inches long, fine finish, Hinge to Pen, and Protracting Pin,			.70
98.	Drawing Pen, German Silver, fine finish, Hinge to Pen, German Silver Points, for Red Ink,				.75
99.	Double Drawing Pen,				2.25
100.	" " or Road Pen, German Silver, for parallel lines,				2.75
101.	Roulette for Dotting Lines,				.75

Parties wanting cases made up of these Instruments, can select the pieces, by the above list, that are best adapted to their purpose, and we will have boxes made to suit, at an additional cost of from \$3 to \$12, according to the sizes of the boxes which are made of rosewood, mahogany or walnut, highly finished.

Cases of German Silver Instruments.

- | | | |
|----------|---|--------|
| No. 102. | Morocco Box: containing pair $5\frac{1}{4}$ inch Dividers, with Pen and Pencil Points. Drawing Pen, | \$2.00 |
| 103. | Morocco Box: containing pair $5\frac{1}{4}$ inch Dividers, with Pen and Pencil Points and Lengthening Bar.
Pair 5 inch Plain Dividers. Drawing Pen, | 3.00 |
| 104. | Morocco Box: containing pair $5\frac{1}{4}$ inch Dividers, with Pen, Pencil and Needle Points and Lengthening Bar.
Pair 5 inch Plain Dividers. 2 Drawing Pens, | 4.00 |



No. 105.

- | | | |
|------|---|------|
| 105. | Morocco Box: containing pair $5\frac{1}{4}$ inch Dividers, with Pen, Pencil and Needle Points and Lengthening Bar.
Pair 5 inch Plain Dividers.
Pair 4 inch Dividers, with Pen, Pencil and Needle Points.
2 Drawing Pens. | 6.50 |
|------|---|------|

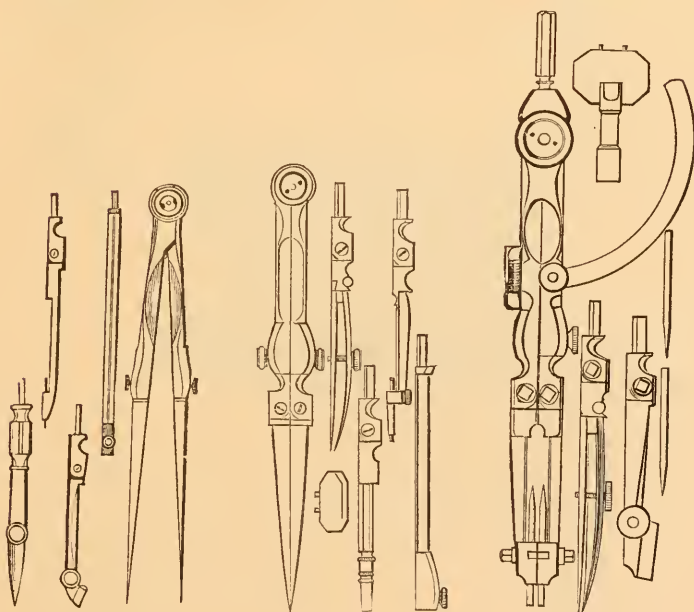
Cases of French German Silver Instruments,

In Rosewood Boxes.

- | | | |
|------|--|------|
| 106. | Rosewood Box: containing pair $5\frac{1}{2}$ inch Dividers, with Pen and Pencil Points and Lengthening Bar.
Pair $4\frac{1}{2}$ inch Plain Dividers. Bow Pen Drawing Pen.
Horn Protractor, | 4.50 |
| 107. | Rosewood Box: Instruments set in Tray: containing pair 6 inch Dividers, with Pen and Pencil Points and Lengthening Bar.
Pair $4\frac{1}{2}$ inch Plain Dividers.
Pair $3\frac{1}{2}$ inch Dividers, with Pen and Pencil Points.
Bow Pen, with Needle Point and Pen and Pencil Points.
Drawing Pen. Brass Protractor. Horn Protractor.
Divided Rule, | 6.50 |
| 108. | Rosewood Box: with Lock and Key, and the Instruments set in a Tray, so that Colors, &c., may be put below; containing pair 6 inch Needle Point Dividers, with Pen and Pencil Points and Lengthening Bar.
Pair $4\frac{1}{2}$ inch Plain Dividers.
Pair $3\frac{1}{2}$ inch Needle Point Dividers, with Pen and Pencil Points.
Drawing Pen.
Brass Protractor.
Horn Protractor, | 4.50 |

- No. 109. Rosewood Box, with Lock and Key, the Instruments set in a Tray, so that Colors, &c., may be put below; containing pair 6 inch Needle Point Dividers, with Pen and Pencil Points and Lengthening Bar.
 Pair $4\frac{1}{2}$ inch Plain Dividers.
 Pair $3\frac{1}{2}$ inch Needle Point Dividers, with Pen and Pencil Points
 Spring Bow Pen, with Needle Point.
 Drawing Pen.
 Horn Protractor, \$7.50
110. Rosewood Box, with Lock and Key, the Instruments set in a Tray, so that Colors, &c., may be put below; containing pair 6 inch Needle Point Dividers, with Pen and Pencil Points and Lengthening Bar.
 Pair $4\frac{1}{2}$ inch Plain Dividers.
 Pair $3\frac{1}{2}$ inch Needle Point Dividers, with Pen and Pencil Points.
 Spring Bow Pen, with Needle Point.
 Drawing Pen.
 German Silver Protractor.
 Horn Protractor.
 Irregular Curve of Wood.
 2 Triangles of Wood.
 Pair Proportional Dividers, $7\frac{1}{2}$ inches long, 10.75

Extra Fine German Silver Instruments.



No. 111.

No. 112.

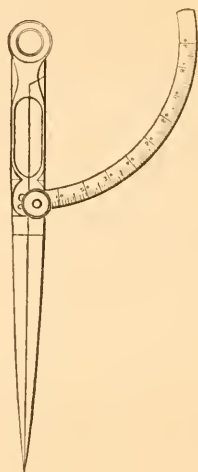
No. 113.

- No. 111. Dividers, German Silver, 6 inches long, Steel Joints, with Pen, Pencil and Needle Points and Lengthening Bar, 3.25

No. 112.	Dividers, $6\frac{1}{2}$ inches long, joints in each leg, with Pen, Pencil, Needle Points and Lengthening Bar,	\$4.00
113.	Lithograph Dividers, with Bow Circle, Pen and Pencil and Micro-meter Adjustment,	12.00
114.	Dividers, German Silver, 3 inches long, with Pen, Pencil, and Needle Points,	2.50
115.	Spacing Dividers, all Steel, with Spring and Adjusting Screw, 3 inch,	1.50
116.	Steel Bow Pencil, 3 inches long, with Needle Point,	1.75
117.	Steel Bow Pen, 3 inches long, with Needle Point,	1.75



No. 118.



No. 119.

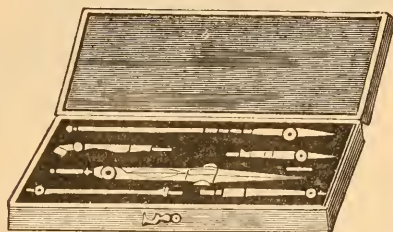


No. 125.

118.	Proportional Dividers, $6\frac{1}{2}$ inches long, finely graduated for lines,	4.25
119.	$5\frac{1}{2}$ inch Dividers, with graduated bow circle,	2.50
120.	Ruling Pen, $5\frac{1}{2}$ inch, with hinge and pin, . . . . .	.75
121.	Ruling Pen, $5\frac{1}{2}$ inch, with hinge, . . . . .	.65
122.	Ruling Pen, 5 inch, with hinge and pin,	1.00
123.	Ruling Pen, 4 inch, with hinge and pin, . . . . .	.85
124.	Ruling Pen, 4 inch, with hinge, . . . . .	.65
125.	Ruling Pen, with 3 adjustable points,	1.25
126.	Ruling Pen, with 5 adjustable points,	2.00
127.	Dividers, German Silver, 4 inches long, steel joints, with hair spring,	1.50
128.	Dividers, German Silver, 5 inches long, steel joints, with hair spring,	1.75
129.	Dividers, German Silver, 6 inches long, steel joints, with hair spring,	2.00
130.	Plain Dividers, 5 inches long, each,	1.00
131.	Plain Dividers, 6 inches long, each,	1.25

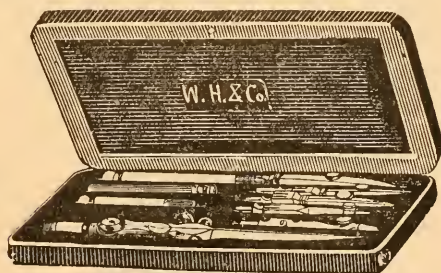
Cases of Extra Fine German Silver Instruments.

For Engineers, Architects and Machinists.



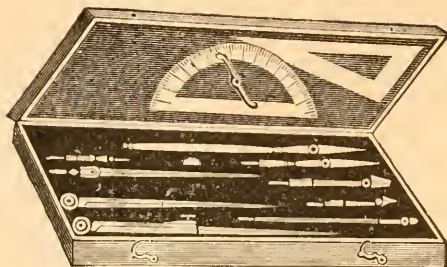
No. 131 A.

- No. 131 A. Morocco Box: containing pair $5\frac{1}{2}$ inch Dividers, with Pen and Pencil Points,
Drawing Pen, \$3.00
- 131 B. Morocco Box: containing pair 3 inch Dividers, with Pen, Pencil and Needle Points and Lengthening Bar.
Drawing Pen, 4.50



No. 131 C.

131. C. Morocco Box: containing pair 5 inch Needle Point Dividers, with Pen, Pencil Point and Case of Leads, 4.00
131. D. Morocco Box: containing pair $5\frac{1}{2}$ inch Dividers, with Pen and Pencil Points.
Pair 5 inch Plain Dividers.
Drawing Pen, 3.50
131. E. Morocco Box: containing pair Dividers, 6 inches long, with Pen, Pencil and Needle Points and Lengthening Bar.
Pair Plain Dividers, 5 inches long.
Drawing Pen, 5.00



No. 131 F.

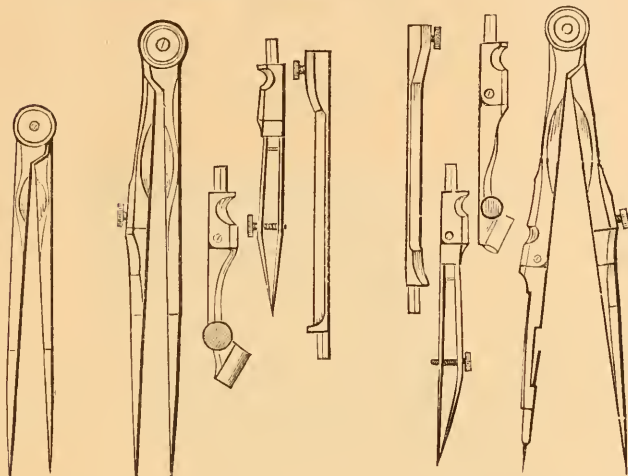
- No. 131 F. Morocco Box: containing pair $5\frac{1}{2}$ inch Dividers, with Pen and Pencil Points and Lengthening Bar. Pair 5 inch Plain Dividers. Pair 3 inch Dividers, with Pen and Pencil Points. Drawing Pen. German Silver Protractor. German Silver Square, \$8.50
- 131 G. Morocco Box: containing pair $5\frac{1}{2}$ inch Dividers, with Pen, Pencil and Needle Points and Lengthening Bar. Pair 5 inch Plain Dividers. Spring Bow Pen. Drawing Pen, 6.50
- 131 H. Morocco Box: containing pair $5\frac{1}{2}$ inch Dividers, with Pen, Pencil and Needle Points and Lengthening Bar. Pair 5 inch Plain Dividers. Pair 3 inch Dividers, with Pen, Pencil and Needle Point. 2 Drawing Pens. German Silver Protractor. German Silver Square, 9.75
- 131 I. Same Instruments as No. 131 H, in Polished Walnut Box, with Lock, Key and Tray, 11.75
- 131 J. Polished Walnut Box: containing pair $5\frac{1}{2}$ inch Dividers, with Pen, Pencil and Needle Points and Lengthening Bar. Pair 5 inch Plain Dividers. Pair 3 inch Dividers, with Pen, Pencil and Needle Points. Spring Bow Pen, with Needle Point. 2 Drawing Pens. German Silver Square. German Silver Protractor, 12.50



No. 131 K.

- No. 131 K. Morocco Pocket Case: containing pair 6 inch German Silver Dividers, Steel Joints, with Pen, Pencil and Needle Points, and Lengthening Bar. Pair $5\frac{1}{2}$ inch German Silver Hair Spring Dividers, Steel Joints. $3\frac{1}{2}$ inch Steel Spring Spacing Dividers, $3\frac{1}{2}$ inch Steel Bow Pencil with Needle Points. $3\frac{1}{2}$ inch Steel Bow Pen with Needle Points. 6 inch Drawing Pen with hinge. $4\frac{1}{2}$ inch Drawing Pen with hinge, Case Leads, 10.50

Mathematical Instruments of Brass.



No. 132.

No. 142.

No. 143.

No. 132.	Brass Dividers, $3\frac{1}{2}$ inches long, Screw Joint,	. . . . .	.25
133.	" " $4\frac{1}{2}$ " " " " " " " "	. . . . .	.30
134.	" " $5\frac{1}{2}$ " " " " " " " "	. . . . .	.38
135.	" " $6\frac{1}{2}$ " " " " " " " "	. . . . .	.45
136.	" " $4\frac{1}{2}$ " " " " " " " "	. . . . .	.20
137.	" " $5\frac{1}{2}$ " " " " " " " "	. . . . .	.30
138.	" " $6\frac{1}{2}$ " " " " " " " "	. . . . .	.35
139.	" " $4\frac{1}{2}$ " " " " " " " "	. . . . .	.40
140.	" " $5\frac{1}{2}$ " " " " " " " "	. . . . .	.50
141.	" " $6\frac{1}{2}$ " " " " " " " "	. . . . .	.60
142.	" " $4\frac{1}{2}$ " " " " " " " "	. . . . .	.60
	Lengthening Bar,	. . . . .	.60
143.	Brass Dividers, Needle Point, $4\frac{1}{2}$ inches long, with Pen and Pencil Points and Lengthening Bar. . . . .	. . . . .	.75



No. 145.



No. 146.



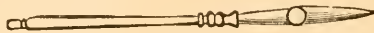
No. 147.

No. 144.	Brass Dividers, Needle Point, 6 inches long, with Pen and Pencil Points and Lengthening Bar,	\$1.00
145.	Brass Dividers, 3 inches long, with Pen and Pencil Points, . . . . .	.60
146.	Brass Bow Pen, no Spring, . . . . .	.60
147.	Brass Bow Pencil, no Spring, . . . . .	.60



No. 148.

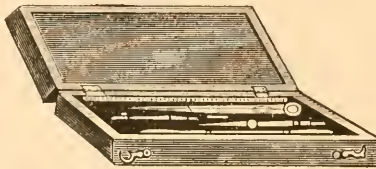
148.	Brass Bisecting Dividers, . . . . .	.60
149.	Brass Proportional Dividers, divided for lines, in case,	2.25
150.	Drawing Pen, Black Handle, . . . . .	.20



No. 151.

151.	Drawing Pen, Ivory Handle, . . . . .	.30
152.	Roulette for Dotting Lines, with Three Wheels, . . . . .	.85
153.	Furniture for Beam Compass, of Brass, with Adjusting Screw, in Morocco Case,	5.50
154.	Double Drawing or Railroad Pen, for Parallel Lines, Brass Mounted,	2.25

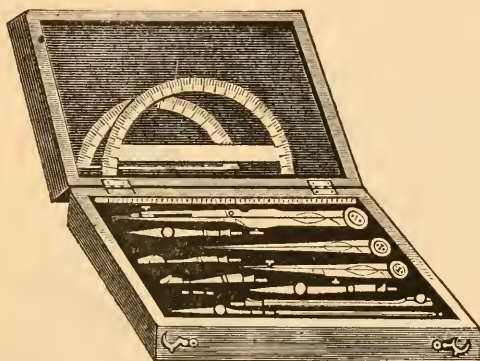
Cases of Brass Drawing Instruments.



No. 155.

No. 155.	Wood Box: containing pair $4\frac{1}{2}$ inch Dividers, with Pen and Pencil Points and Crayon Holder, . . . . .	.60
156.	Wood Box: containing pair $4\frac{1}{2}$ inch Dividers, with Pen and Pencil Points and Lengthening Bar. Ebony Handle Drawing Pen. Crayon Holder, Horn Protractor and Divided Rule, . . . . .	.90
157.	Wood Box: containing pair $4\frac{1}{2}$ inch Dividers, with Pen and Pencil Points and Lengthening Bar. Pair $3\frac{1}{2}$ inch Plain Dividers. Drawing Pen. Brass Protractor. Crayon Holder and Divided Rule,	1.00
158.	Rosewood Box: containing pair $5\frac{1}{2}$ inch Dividers, with Pen and Pencil Points and Lengthening Bar. Pair $3\frac{1}{2}$ inch Plain Dividers. Drawing Pen. Crayon Holder, Brass Protractor and Divided Rule,	1.50

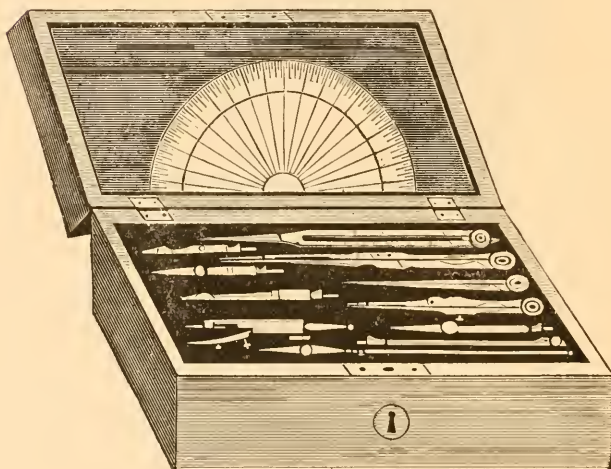
- No. 159. Rosewood Box: containing pair $5\frac{1}{2}$ inch Dividers, with Pen and Pencil Points and Lengthening Bar.
 Pair $4\frac{1}{2}$ inch Plain Dividers.
 Pair $3\frac{1}{2}$ inch Needle Point Dividers, with Pen and Pencil Points.
 Drawing Pen.
 Brass Protractor and Divided Rule, \$1.75



No. 160.

160. Rosewood Box: containing pair 6 inch Dividers, with Pen and Pencil Points and Lengthening Bar.
 Pair $4\frac{1}{2}$ inch Plain Dividers.
 Pair $3\frac{1}{2}$ inch Dividers, with Pen and Pencil Points.
 Drawing Pen.
 Brass Protractor.
 Horn Protractor.
 Divided Wood Rule, 2.50
161. Same as No. 160, but with the Instruments set in a Tray, so that Colors, &c., may be put below, 3.25
162. Rosewood Box: containing pair 6 inch Needle Point Dividers, with Pen and Pencil Points and Lengthening Bar.
 Pair $4\frac{1}{2}$ inch Plain Dividers.
 Pair $3\frac{1}{2}$ inch Needle Point Dividers, with Pen and Pencil Points.
 Drawing Pen.
 Brass Protractor.
 Horn Protractor.
 Divided Wood Rule, 3.25
163. Rosewood Box: with Lock and Key, the Instruments set in a Tray: containing pair 6 inch Dividers, with Pen and Pencil Points and Lengthening Bar.
 Pair $4\frac{1}{2}$ inch Plain Dividers.
 Pair $3\frac{1}{2}$ inch Dividers, with Pen and Pencil Points.
 Bow Pen, with Needle Point and Pen and Pencil Points.
 Ruling Pen.
 Brass Protractor.
 Horn Protractor.
 Divided Rule, 3.50

- No. 164. Rosewood Box, with Lock and Key, the Instruments set in a Tray, so that Colors, &c., may be put below: containing pair 6 inch Needle Point Dividers, with Pen and Pencil Points and Lengthening Bar.
 Pair $4\frac{1}{2}$ inch Plain Dividers.
 Pair $3\frac{1}{2}$ inch Needle Point Dividers, with Pen and Pencil Points.
 Spring Bow Pen, with Needle Point.
 Drawing Pen.
 Brass Protractor.
 Horn Protractor.
 Divided Wood Rule, \$4.25



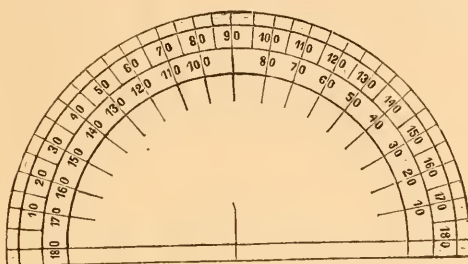
No. 165.

165. Same as No. 164, with the addition of a pair of Proportional Dividers; has no Brass Protractor, but has Wood Triangle and Irregular Curves, 7.50
 166. French Brass Instruments on Cards: pair $4\frac{1}{2}$ inch Dividers, with Pen and Pencil Points,60

PROTRACTORS OF HORN, BRASS, GERMAN SILVER, &c.

Horn Protractors.

167. Railroad Curve Protractor, of Horn, 8 inches diameter, having laid off on it twenty-three curves from $\frac{1}{2}$ degree to 8 degrees. with a radius of 400 feet to the inch, 1.60



No. 172.

No. 168.	Horn Protractor,	5 inches	diameter,	whole circle,	half degrees,	\$1.00
169.	"	6	"	"	"	1.25
170.	"	7	"	"	"	1.50
171.	"	4	"	half circle,	whole degrees,	.15
172.	"	5	"	"	half degrees,	.25
173.	"	6	"	"	"	.30
174.	"	7	"	"	"	.50
175.	"	8	"	"	"	.80

Brass Protractors.

No. 176.	Brass Protractor,	4 inches	diameter,	half circle,	whole degrees,	.10
177.	"	4	"	"	half degrees,	.35
178.	"	5	"	"	"	.55
179.	"	6	"	"	"	.65

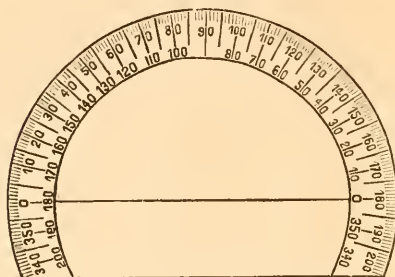
German Silver Protractors.

No. 180.	German Silver Protractor,	4 inches	diameter,	half circle,	whole degrees,	.50
181.	German Silver Protractor,	5 inches	diameter,	half circle,	half degrees,	.85
182.	German Silver Protractor,	6 inches	diameter,	half circle,	half degrees,	1.00
183.	German Silver Protractor,	7 inches	diameter,	half circle,	half degrees,	1.15
184.	German Silver Protractor,	5 inches	diameter,	half circle,	bevelled edge, half degrees,	1.25
185.	German Silver Protractor,	6 inches	diameter,	half circle,	bevelled edge, half degrees,	2.00
186.	German Silver Protractor,	7 inches	diameter,	half circle,	bevelled edge, half degrees,	2.65

Paper Protractors.

No. 187.	Whole Circle Protractors,	8 or 13 inches	diameter,	half degrees,		
	on Drawing Paper, printed in red or black,					.30
188.	Same as No. 187, on Bristol Boards,					.40
189.	Same as No. 187, on Vegetal Tracing Paper,					.25
190.	Half Circle Protractor,	5 inches	diameter,	half degrees,	on Bristol Boards,	.25

Extra Fine Swiss Protractors.

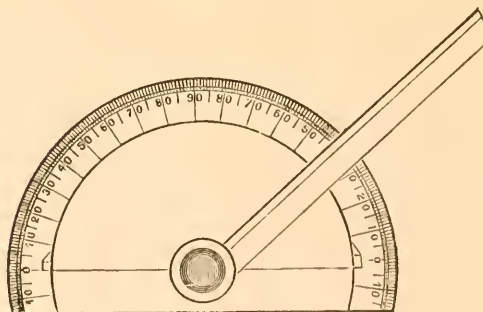


No. 192.

No. 191.	Protractor, 4 inches diameter, half circle, whole degrees, centre on outer edge,	\$1.90
192.	Protractor, 5 inches diameter, half circle, half degrees, centre on outer edge,	2.50
193.	Protractor, 6 inches diameter, half circle, half degrees, centre on outer edge,	3.20
194.	Protractor, 6 inches diameter, half circle, quarter degrees, centre on outer edge,	3.90
195.	Protractor, 5 inches diameter, half circle, half degrees, centre on inner edge,	3.00
196.	Protractor, 6 inches diameter, half circle, half degrees, centre on inner edge,	3.50
197.	Protractor, 6 inches diameter, half circle, quarter degrees, centre on inner edge,	4.50

Extra Fine Swiss Protractors of German Silver,

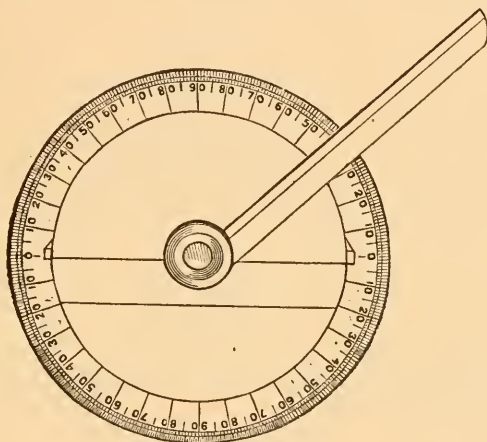
With Arms.



No. 198.

No. 198.	German Silver Protractor, 5 inches diameter, half circle, with Arm, and divided in half degrees,	6.50
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- | | | |
|----------|--|--------|
| No. 199. | German Silver Protractor, 6 inches diameter, half circle, with Arm, and divided in half degrees, | \$7.50 |
| 200. | German Silver Protractor, 7 inches diameter, half circle, with Arm, and divided in half degrees, | 9.00 |
| 201. | German Silver Protractor, 8 inches diameter, half circle, with Arm, and divided in half degrees, | 12.00 |

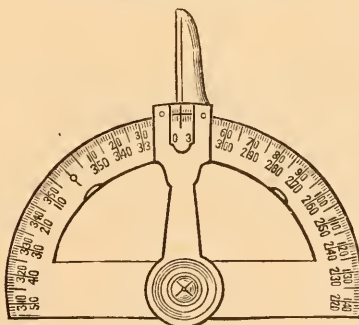


No. 202.

- | | | |
|----------|---|-------|
| No. 202. | German Silver Protractor, 5 inches diameter, whole circle, with Arm, and divided in half degrees, | 10.00 |
| 203. | German Silver Protractor, 6 inches diameter, whole circle, with Arm, and divided in half degrees, | 12.00 |
| 204. | German Silver Protractor, 7 inches diameter, whole circle, with Arm, and divided in half degrees, | 14.00 |
| 205. | German Silver Protractor, 8 inches diameter, whole circle, with Arm, and divided in half degrees, | 16.00 |

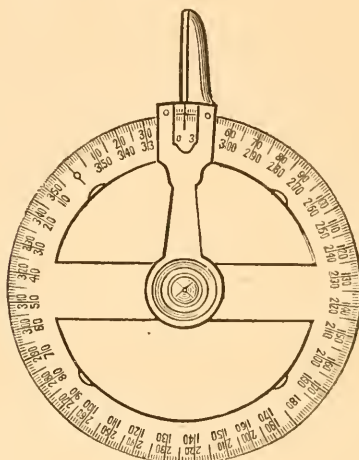
Extra Fine Swiss Protractors of German Silver,

With Arms and Verniers.



No. 206.

- No. 206. Protractor, $5\frac{1}{2}$ inches diameter, half circle, half degrees, with Vernier reading to three minutes, \$11.00
 207. Protractor, 8 inches diameter, half circle, quarter degrees, with Vernier reading to one minute, 14.50
 208. Protractor, 10 inches diameter, half circle, quarter degrees, with Vernier reading to one minute, 18.00

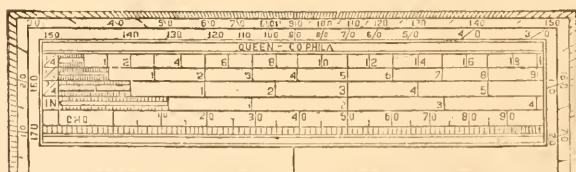


No. 209.

209. Protractor, $5\frac{1}{2}$ inches diameter, whole circle, half degrees, with Vernier reading to three minutes, 14.00
 210. Protractor, 8 inches diameter, whole circle, quarter degrees, with Vernier reading to one minute, 16.25
 211. Protractor, 10 inches diameter, whole circle, quarter degrees, with Vernier reading to one minute, 20.00

Ivory Scales and Protractors.

212. Sector, 6 inches, opens to 12 inches, 2.25
 213. Scale, 6 inches long, same as in School Cases of Instruments, .75



No. 214.

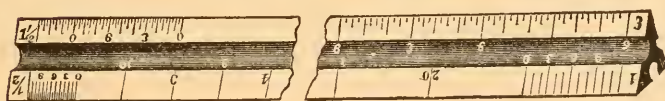
214. Square Protractor, 6 inches long, $1\frac{3}{4}$ inches wide, whole degrees, with 6 Scales of equal parts, 4 Scales of Feet and Inches, 2 Scales of Chords and Diagonal Scale, 1.75

- No. 215. Square Protractor, 6 inches long, $1\frac{3}{4}$ inches wide, whole degrees, with 6 Scales of Equal Parts, 8 Scales of Feet and Inches, 2 Scales of Chords and Diagonal Scale, \$3.00
216. Square Protractor, 6 inches long, 2 inches wide, whole degrees, with 8 Scales of Equal Parts, 10 Scales of Feet and Inches, 2 Scales of Chords, Diagonal Scale, and Line of 40 on lower edge, 3.25
217. Square Protractor, same as No. 215, but in half degrees, 4.00

Boxwood Protractors and Scales.

- No. 218. Square Protractor, 6 inches long, $1\frac{3}{4}$ inches wide, whole degrees with 6 Scales of Equal Parts, 4 Scales of Feet and Inches, 2 Scales of Chords, and Diagonal Scale,50
219. Scale, 6 inches long, same as in School Cases of Instruments,20
220. Scales, 12 inches long, variously graduated, for Architects, each 1.25
221. Scales, 12 inches long, variously graduated, for Engineers, each 1.25

Triangular, Metallic Scales.



- No. 222. Scale, 12 inches long, graduated same as No. 223 3.00
- 222B. Scale, 12 inches long, graduated same as No. 226 or No. 229 3.00

Triangular, Boxwood Scales.

- No. 223. Scale, 24 inches long, graduated 3-32, 3-16, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{2}$, 3 inches and 16ths to the foot, 5.00
224. Same as No. 223, 12 inches long, 2.00
225. Same as No. 223, 6 inches long, \$1.50
226. Chain Scale, 24 inches long, graduated 10, 20, 30, 40, 50, 60, parts per inch, 5.00
227. Same as No. 226, 12 inches long, 2.00
228. Same as No. 226, 6 inches long, 1.50
229. Chain Scale, 12 inches long, graduated 20, 30, 40, 50, 60, 80 parts per inch, 2.00
- Any variety of Flat and Triangular Boxwood Scales furnished to order.

School Rules.

230. Boxwood, bevelled edge, 8ths and 16ths of inches, $\frac{3}{4}$ inch wide, 12 inches long,10
231. Boxwood, bevelled edges, 10ths and 16ths of inches, $\frac{3}{4}$ inch wide, 12 inches long,15

Padlocks.

- 231 A, Brass Padlocks for Sketch Boxes,30
- 231 B, " " " Desks,90

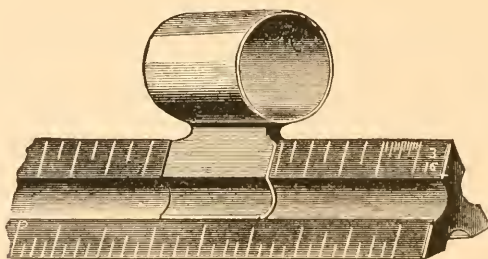
Paper Scales.

- No. 232. Paper Scale, printed on Card-Paper, $1\frac{1}{4}$ inch wide, 12 inches long, graduated on one edge inches and 10ths, and the other feet and 100ths,10
233. Paper Scale, same as No. 232, one edge 20 parts to the inch, the other edge 40,10
234. Paper Scale, same as No. 233, one edge inches and 16ths, the other edge inches and 48ths,10
235. Paper Scales, printed on Card Paper, 19 inches long, for Architects and Engineers, in sets of 6 Scales, per set,1.00
 Series A contains 6 Scales, one each, divided to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{2}$, and 3 inches to the foot.
 Series B contains 6 Scales, one each, divided to 3-32, $\frac{1}{8}$, 3-16, 5-16, $\frac{3}{8}$, and $\frac{7}{8}$ inch to the foot.
 Series C contains 6 Scales, one each, divided to 10, 20, 30, 40, 50 and 60 parts to the inch.
236. Single Scale, of any of the above series, A, B, C—each scale,20
237. Paper Scales, same as No. 235, divided either to $\frac{5}{8}$, $1\frac{1}{8}$, $1\frac{1}{4}$, or $1\frac{3}{8}$ inches to the foot, each,20

The advantages of these Scales are : they expand and contract nearly the same as Drawing Paper, do not soil the work, and distances can be set off from them without the use of Dividers.

We manufacture to order Scales to any divisions, in Ivory, Boxwood, Whitewood or Rubber.

Scale Guard and Steel Rules.



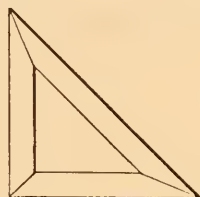
No. 238.

238. Triangular Scale Guard,25

A very useful attachment to the Triangular Scale, to obviate the liability to error, and the loss of time caused by the necessity of a careful examination of the Scale each time it is used.

239. Steel Rule, graduated to inches, 8, 10, 12, 16, 20, 24, 32, 48, 50, 64 and 100 parts to the inch,
 24 in. 12 9 6 4 3
 \$4.00 2.00 1.50 1.00 .75 .50
240. Square Steel Rule, graduated to 8, 16, 32, 64, and 100 parts to the inch,
 3 in. 4 6
 .50 .75 1.00

Wood Triangles.

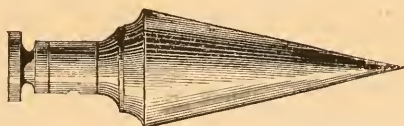


No. 241.	Pearwood or Cherry Triangles, Framed, 30x60 degrees,				
	7 in.	9	11	14	
	.20	.25	.30	.40	
242.	Pearwood or Cherry Triangles, Framed, 45 degrees,				
	5 in.	7	9	11	
	.20	.25	.30	.40	
243.	Pearwood or Cherry Triangles, Lined, 30x60 degrees,				
	7	9	11	14	17
	.25	.40	.50	.60	.75
244.	Pearwood or Cherry Triangles, Lined, 45 degrees,				
	5 in.	7	9	11	14
	.25	.40	.50	.60	.75

Wood Dividers.

245.	Wood Dividers, with Crayon Holder, for Blackboard drawing,					
	13 in.	16	20	24	27	30 36
	\$1.00	1.25	1.50	1.75	2.00	2.25 2.50

Plumb Bobs.



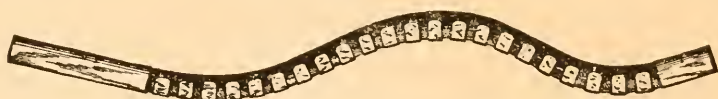
No. 284.

No. 246.	Brass Plumb Bob, Steel Point, Screw Cap, 4 oz., .						\$1.50
	"	"	"	"	"	" 8 oz., .	2.00
	"	"	"	"	"	" 10 oz., .	2.25
	"	"	"	"	"	" 14 oz., .	2.50
	"	"	"			small, .	.30
	"	"	"			nicked, .	.50

Tack Lifters.

Nickel Plated.

No. 247.	For fastening or removing Thumb Tacks,25
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Draftsman's Adjustable Curve Ruler.

248. This tool is designed to supplement the well known French Curves, and will be found a most excellent and handy tool. The working edge is made flexible with a certain amount of spring to it, and will always assume a uniform and perfect curve. It can be instantly adjusted and retained to any form of curve, the retaining power being a strip of pure drawn lead, which is covered by sleeves, and slides between two ribbons of tempered steel.

The working edge is cylindrical in cross section, so that by slightly inclining the pen two or more parallel lines can be drawn without removing the ruler.

This tool is commended by leading architects and draftsmen, and meets a want long felt. It is well made in every part, and neatly finished in nickel plate.

Whole length of tool, 14½ inches. Length of working edge, 10 inches.

Price, each, \$1.50

Straight Edges.

249. Whitewood, bevelled edge, thick,

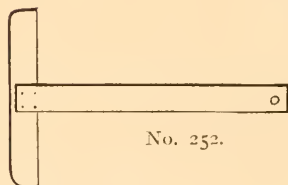
12 in.	18	24	30	36	42
.15	.20	.25	.30	.40	.50

250. Hardwood lined, square edges, thin,

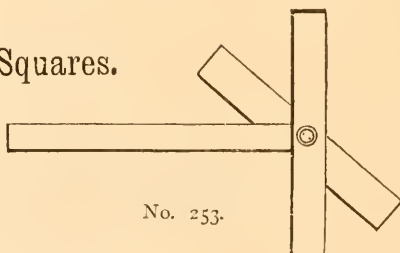
24 in.	30	36	42	48	54
.40	.50	.70	.85	1.15	1.50

251. Mahogany, Ebony lined, square edges, thin,

24 in.	30	36	42	48	54
.55	.70	1.00	1.25	1.60	2.00



No. 252.



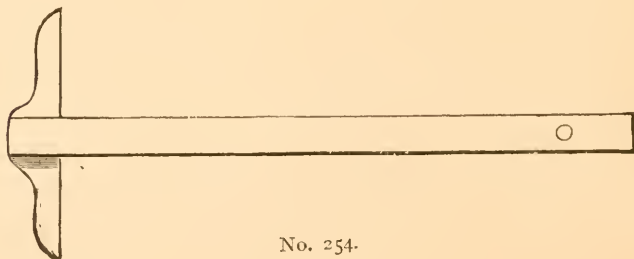
No. 253.

252. Pearwood T Square, Fixed Head,

15 in.	20	25	30	35	40	45	50	70
.35	.45	.50	.60	.70	.80	1.00	1.25	2.00

253. Pearwood T Square, Shifting Head,

20 in.	25	30	35	40	50	70
\$1.00	1.10	1.20	1.35	1.50	1.75	2.50



No. 254.

For Illustration of No. 254, see page opposite.

No. 254.	Maple Blade, Black Walnut Head, fixed,				
	20 in.	25	30	35	50
	.65	.75	.85	1.00	1.25
255.	Maple Blade, Black Walnut Head, shifting,				60
	20 in.	25	30	40	55
	\$1.10	1.25	1.40	1.60	2.00
256.	Mahogany, Ebony lined, Fixed Heads,				
	25 in.	30	35	50	60
	\$1.25	1.50	1.75	2.50	4.00
257.	Mahogany, Ebony lined, Shifting Head,				
	25 in.	30	35	50	60
	\$2.25	2.50	2.75	3.50	5.00

Irregular Curves.



NO. 258.

258.	Pearwood Curves, Common, according to size,	.	.	.	.15 to .30
259.	" Fine, "	.	.	.	.25 to .50
260.	Horn Curves, according to size,	.	.	.	.60 to .75

Parallel Rulers.



NO. 264.

261.	Parallel Rulers, Ebony, Brass Mounted, 6 inches long,	.	.	.25
262.	" " " 9 "	.	.	.50
263.	" " " 12 "	.	.	.75
264.	" " " 15 "	.	.	1.00
265.	" " " 18 "	.	.	1.25
266.	" " " 24 "	.	.	2.00
267.	" German Silver Mounted, 12 inches long,	.	.	1.25

Rolling Parallel Rulers.

No. 268.	Parallel Ruler, all German Silver, on Rollers, 12 inches long,	\$10.00
269.	" " " 15 " "	12.00
270.	" " " 18 " "	15.00
271.	" all Brass, on Rollers, 9 inches long,	6.50
272.	" " " 12 " "	8.00
273.	" " " 15 " "	10.00
274.	" " " 18 " "	12.00
275.	" Ebony, " 12 " "	3.25
276.	" " " 15 " "	4.00
277.	" " " 18 " "	5.00
278.	" " Ivory Graduated Edges, on Rollers, 12 inches long,	5.00
279.	Parallel Ruler, Ebony, Ivory Graduated Edges, on Rollers, 15 inches long,	6.50
280.	Parallel Ruler, Ebony, Ivory Graduated Edges, on Rollers, 18 inches long,	7.50

Hard Rubber Triangles and Curves.



NO. 281.



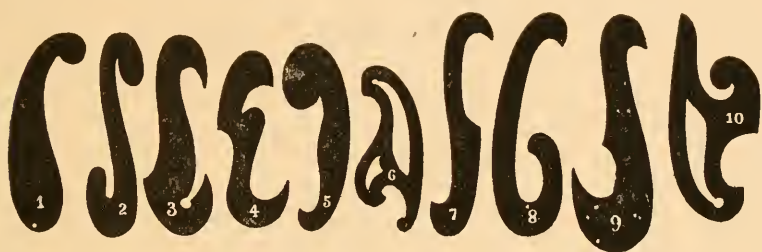
NO. 282.

No. 281. Hard Rubber Triangles, 30 x 60 degrees.

4 inches long,	.25	11 inches long,	.75
5 " "	.30	12 " "	.90
6 " "	.35	13 " "	1.00
7 " "	.40	14 " "	1.25
8 " "	.50	15 " "	1.50
9 " "	.60	16 " "	1.75
10 " "	.65		

No. 282. Hard Rubber Triangles, 45 degrees.

4 inches long,	.35	11 inches long,	\$1.25
5 " "	.40	12 " "	1.50
6 " "	.45	13 " "	1.75
7 " "	.55	14 " "	2.00
8 " "	.70	15 " "	2.25
9 " "	.80	16 " "	2.50
10 " "	1.00		



No. 283. Hard Rubber Curves.

No. 1,	.30
2,	.30
3,	.35
4,	.35
5,	.35

No. 6,	.35
7,	.40
8,	.40
9,	.40
10,	.45



No. 11,	.40
12,	.35
13,	.50
14,	.55

No. 15,	.50
16,	.40
17,	.55
18,	.65



No. 19,	.65
20,	.55
21,	.60

No. 22,	.65
23,	.90
24,	1.00

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